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NXP Semiconductors/Freescale Semiconductor, Inc. PMEG6010ETR,115

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Datasheet of PMEG6010ETR,115 - DIODE SCHOTTKY 60V 1A SOD123W Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

## PMEG6010ETR

High-temperature 60 V, 1 A Schottky barrier rectifier
10 October 2012 Product data sheet

## 1. Product profile

#### 1.1 General description

Planar Maximum Efficiency General Application (MEGA) Schottky barrier rectifier with an integrated guard ring for stress protection, encapsulated in a SOD123W small and flat lead Surface-Mounted Device (SMD) plastic package.

#### 1.2 Features and benefits

- Average forward current: I<sub>F(AV)</sub> ≤ 1 A
- Reverse voltage: V<sub>R</sub> ≤ 60 V
- Low forward voltage
- High power capability due to clip-bonding technology
- Small and flat lead SMD plastic package
- AEC-Q101 qualified
- High temperature T<sub>i</sub> ≤ 175 °C

### 1.3 Applications

- Low voltage rectification
- High efficiency DC-to-DC conversion
- Switch mode power supply
- Reverse polarity protection

#### 1.4 Quick reference data

Table 1. Quick reference data

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
I <sub>F</sub>	forward current	T <sub>sp</sub> = 165 °C		-	-	1.4	Α
I <sub>F(AV)</sub>	average forward current	$\delta$ = 0.5 ; f = 20 kHz; T <sub>amb</sub> ≤ 140 °C; square wave	[1]	-	-	1	А
		$\delta$ = 0.5 ; f = 20 kHz; $T_{sp} \le$ 170 °C; square wave		-	-	1	Α
$V_R$	reverse voltage	T <sub>j</sub> = 25 °C		-	-	60	V
V <sub>F</sub>	forward voltage	I <sub>F</sub> = 1 A; T <sub>j</sub> = 25 °C		-	460	530	mV
I <sub>R</sub>	reverse current	$T_j$ = 25 °C; $V_R$ = 60 V; $t_p \le$ 300 µs; $\delta \le$ 0.02 ; pulsed		-	30	60	μA





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Symbol	Parameter	Conditions		Min	Тур	Max	Unit
t <sub>rr</sub>	reverse recovery time	$I_R = 0.5 \text{ A}; I_F = 0.5 \text{ A}; I_{R(meas)} = 0.1 \text{ A};$		-	4.4	-	ns
		T <sub>j</sub> = 25 °C					

<sup>[1]</sup> Device mounted on a ceramic Printed-Circuit Board (PCB), Al<sub>2</sub>O<sub>3</sub>, standard footprint.

## **Pinning information**

Table 2. **Pinning information** 

Pin	Symbol	Description	Simplified outline	Graphic symbol
1	K	cathode[1]	1 2	1 <del>][-]</del> 2
2	Α	anode	SOD123W	sym001

<sup>[1]</sup> The marking bar indicates the cathode.

#### **Ordering information** 3.

Table 3. **Ordering information** 

Type number	Package				
	Name	Description	Version		
PMEG6010ETR	SOD123W	plastic surface mounted package; 2 leads	SOD123W		

## Marking

Table 4. **Marking codes** 

Type number	Marking code
PMEG6010ETR	EK

#### **Limiting values 5**.

#### Table 5. **Limiting values**

In accordance with the Absolute Maximum Rating System (IEC 60134).

Symbol	Parameter	Conditions		Min	Max	Unit
V <sub>R</sub>	reverse voltage	T <sub>j</sub> = 25 °C		-	60	V
l <sub>F</sub>	forward current	T <sub>sp</sub> = 165 °C		-	1.4	Α
I <sub>F(AV)</sub>	average forward current	$\delta$ = 0.5 ; f = 20 kHz; $T_{amb} \le$ 140 °C; square wave	[1]	-	1	Α
		$\delta$ = 0.5 ; f = 20 kHz; T <sub>sp</sub> ≤ 170 °C; square wave		-	1	Α
I <sub>FSM</sub>	non-repetitive peak forward current	$t_p$ = 8 ms; $T_{j(init)}$ = 25 °C; square wave		-	50	Α

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Symbol	Parameter	Conditions		Min	Max	Unit
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> ≤ 25 °C	[2]	-	680	mW
			[3]	-	1150	mW
			[1]	-	2140	mW
Tj	junction temperature			-	175	°C
T <sub>amb</sub>	ambient temperature			-55	175	°C
T <sub>stg</sub>	storage temperature			-65	175	°C

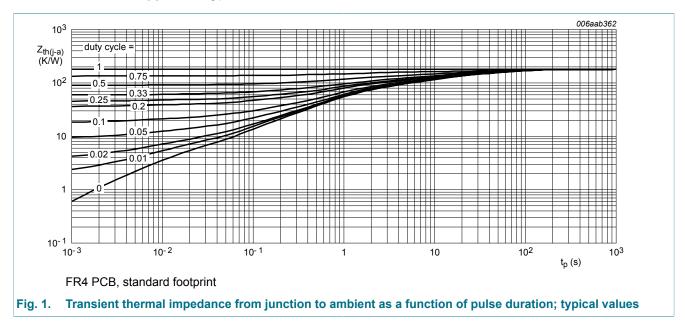
- [1] Device mounted on a ceramic Printed-Circuit Board (PCB), Al<sub>2</sub>O<sub>3</sub>, standard footprint.
- [2] Device mounted on an FR4 PCB, single-sided copper, tin-plated and standard footprint.
- Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for cathode 1 cm<sup>2</sup>.

## 6. Thermal characteristics

Table 6. Thermal characteristics

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
R <sub>th(j-a)</sub>	thermal resistance	in free air	[1][2]	-	-	220	K/W
from junction to ambient		[1][	[1][3]	-	-	130	K/W
	ambient		[1][4]	-	-	70	K/W
R <sub>th(j-sp)</sub>	thermal resistance from junction to solder point		[5]	-	-	18	K/W

- [1] For Schottky barrier diodes thermal runaway has to be considered, as in some applications the reverse power losses P<sub>R</sub> are a significant part of the total power losses.
- [2] Device mounted on an FR4 PCB, single-sided copper, tin-plated and standard footprint.
- [3] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for cathode 1 cm<sup>2</sup>.
- [4] Device mounted on a ceramic PCB, Al<sub>2</sub>O<sub>3</sub>, standard footprint.
- [5] Soldering point of cathode tab.



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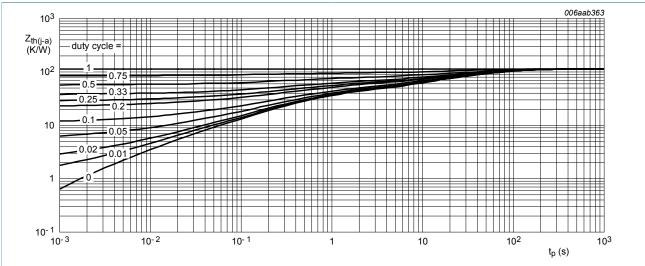
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FR4 PCB, mounting pad for cathode 1 cm<sup>2</sup>

Fig. 2. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

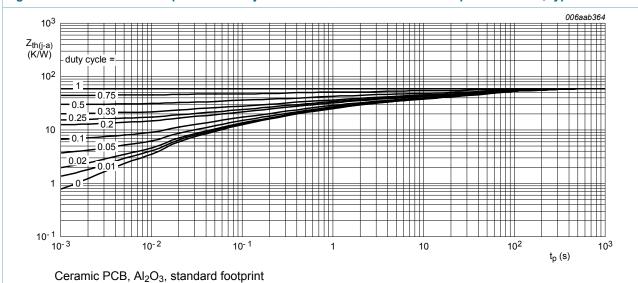


Fig. 3. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

### 7. Characteristics

Table 7. Characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V <sub>F</sub>	forward voltage	I <sub>F</sub> = 0.1 A; T <sub>j</sub> = 25 °C	-	320	370	mV
		I <sub>F</sub> = 0.7 A; T <sub>j</sub> = 25 °C	-	430	490	mV
		I <sub>F</sub> = 1 A; T <sub>j</sub> = 25 °C	-	460	530	mV
		I <sub>F</sub> = 1 A; T <sub>j</sub> = -40 °C	-	510	590	mV
		I <sub>F</sub> = 1 A; T <sub>j</sub> = 125 °C	-	400	480	mV
	I <sub>F</sub> = 1 A; T <sub>j</sub> = 150 °C	-	380	460	mV	
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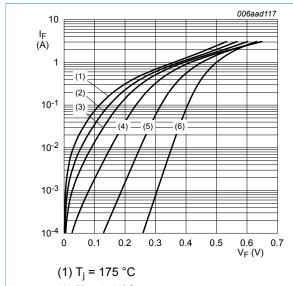
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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
		I <sub>F</sub> = 1 A; T <sub>j</sub> = 175 °C	-	365	450	mV
I <sub>R</sub>	reverse current	$V_R$ = 5 V; $T_j$ = 25 °C; $t_p$ ≤ 300 μs; $\delta$ ≤ 0.02 ; pulsed	-	1.2	-	μΑ
		$V_R$ = 10 V; $T_j$ = 25 °C; $t_p$ ≤ 300 μs; $\delta$ ≤ 0.02 ; pulsed	-	1.7	-	μΑ
		$V_R$ = 60 V; $T_j$ = 25 °C; $t_p$ ≤ 300 μs; $\delta$ ≤ 0.02 ; pulsed	-	30	60	μA
		$V_R$ = 60 V; $T_j$ = -40 °C; $t_p$ ≤ 300 μs; $\delta$ ≤ 0.02 ; pulsed	-	0.6	10	μA
		$V_R$ = 60 V; $T_j$ = 125 °C; $t_p$ ≤ 300 μs; $\delta$ ≤ 0.02 ; pulsed	-	14	50	mA
C <sub>d</sub>	diode capacitance	V <sub>R</sub> = 1 V; f = 1 MHz; T <sub>j</sub> = 25 °C	-	120	-	pF
		V <sub>R</sub> = 10 V; f = 1 MHz; T <sub>j</sub> = 25 °C	-	40	-	pF
t <sub>rr</sub>	reverse recovery time	$I_F = 0.5 \text{ A}; I_R = 0.5 \text{ A}; I_{R(meas)} = 0.1 \text{ A};$ $T_j = 25 ^{\circ}\text{C}$	-	4.4	-	ns
V <sub>FRM</sub>	peak forward recovery voltage	$I_F = 1 \text{ A}; dI_F/dt = 40 \text{ A/}\mu\text{s}; T_j = 25 °C$	-	500	-	mV

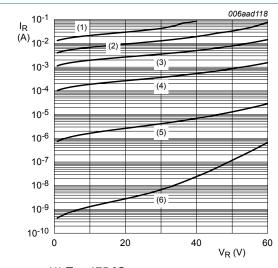


(2) 
$$T_i = 150 \, ^{\circ}C$$

(5) 
$$T_i = 25 \,^{\circ}\text{C}$$

(6) 
$$T_j = -40 \, ^{\circ}C$$

Fig. 4. Forward current as a function of forward voltage; typical values



(1)  $T_j = 175 \,^{\circ}\text{C}$ 

(2) 
$$T_i = 150 \, ^{\circ}\text{C}$$

(3) 
$$T_i = 125 \, ^{\circ}C$$

(4) 
$$T_i = 85 \,^{\circ}\text{C}$$

(5) 
$$T_i = 25 \,^{\circ}C$$

(6) 
$$T_i = -40 \, ^{\circ}C$$

Fig. 5. Reverse current as a function of reverse voltage; typical values

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<sup>(3)</sup>  $T_i = 125 \, ^{\circ}C$ 

<sup>(4)</sup>  $T_i = 85 \,^{\circ}C$ 

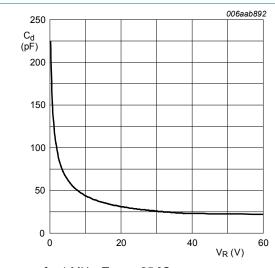


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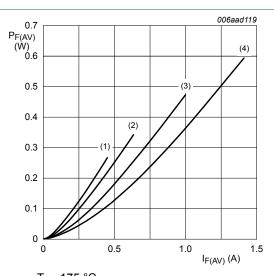
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 $f = 1 \text{ MHz}; T_{amb} = 25 ^{\circ}\text{C}$ 

Fig. 6. Diode capacitance as a function of reverse voltage; typical values

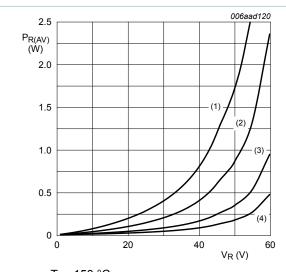


T<sub>i</sub> = 175 °C  $(1) \delta = 0.1$  $(2) \delta = 0.2$ 

 $(3) \delta = 0.5$ 

 $(4) \delta = 1$ 

Fig. 7. Average forward power dissipation as a function of average forward current; typical values



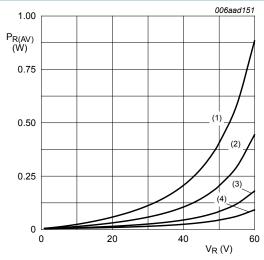
T<sub>i</sub> = 150 °C  $(1) \delta = 1$ 

 $(2) \delta = 0.5$ 

 $(3) \delta = 0.2$ 

 $(4) \delta = 0.1$ 

Fig. 8. Average reverse power dissipation as a function of reverse voltage; typical values



T<sub>i</sub> = 125 °C

 $(1) \delta = 1$ 

 $(2) \delta = 0.5$ 

 $(3) \delta = 0.2$ 

 $(4) \delta = 0.1$ 

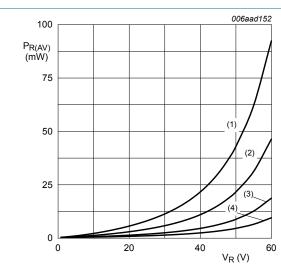
Fig. 9. Average reverse power dissipation as a function of reverse voltage; typical values

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T<sub>j</sub> = 85 °C

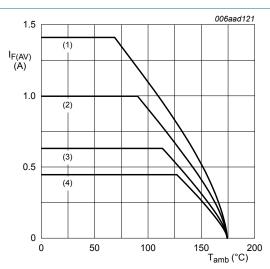
 $(1) \delta = 1$ 

 $(2) \delta = 0.5$ 

 $(3) \delta = 0.2$ 

 $(4) \delta = 0.1$ 

Fig. 10. Average reverse power dissipation as a function of reverse voltage; typical values



FR4 PCB, standard footprint

 $T_i = 175 \,{}^{\circ}\text{C}$ 

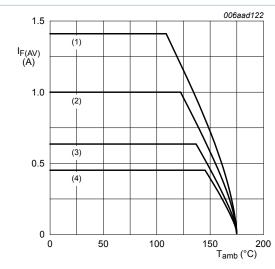
(1)  $\delta = 1$  (DC)

(2)  $\delta = 0.5$ ; f = 20 kHz

(3)  $\delta = 0.2$ ; f = 20 kHz

(4)  $\delta = 0.1$ ; f = 20 kHz

Fig. 11. Average forward current as a function of ambient temperature; typical values



FR4 PCB, mounting pad for cathode 1 cm<sup>2</sup>

 $T_i = 175 \,{}^{\circ}\text{C}$ 

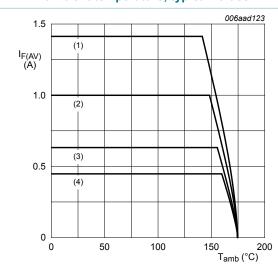
 $(1) \delta = 1 (DC)$ 

(2)  $\delta = 0.5$ ; f = 20 kHz

(3)  $\delta = 0.2$ ; f = 20 kHz

(4)  $\delta = 0.1$ ; f = 20 kHz

Fig. 12. Average forward current as a function of ambient temperature; typical values



Ceramic PCB, Al<sub>2</sub>O<sub>3</sub>, standard footprint

T<sub>i</sub> = 175 °C

(1)  $\delta = 1$  (DC)

(2)  $\delta = 0.5$ ; f = 20 kHz

(3)  $\delta = 0.2$ ; f = 20 kHz

(4)  $\delta = 0.1$ ; f = 20 kHz

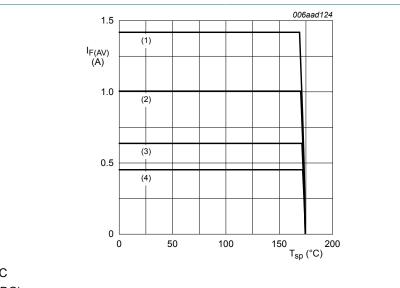
Fig. 13. Average forward current as a function of ambient temperature; typical values

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 $T_j = 175$  °C

 $(1) \delta = 1 (DC)$ 

(2)  $\delta = 0.5$ ; f = 20 kHz

(3)  $\delta$  = 0.2; f = 20 kHz

(4)  $\delta$  = 0.1; f = 20 kHz

Fig. 14. Average forward current as a function of solder point temperature; typical values

## 8. Test information

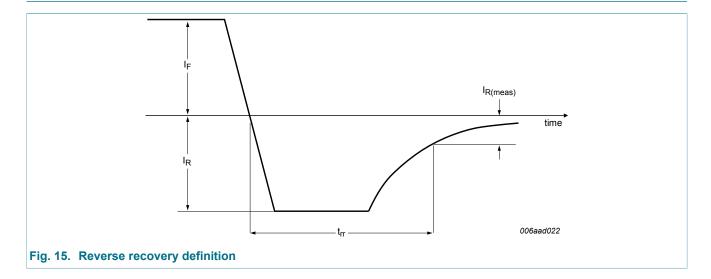
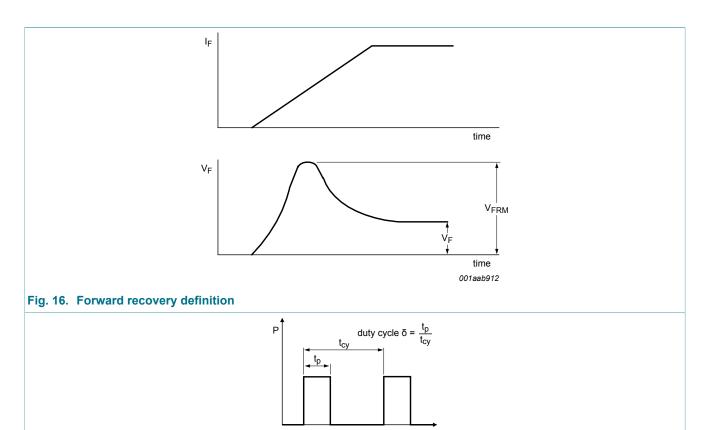




Fig. 17. Duty cycle definition

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The current ratings for the typical waveforms are calculated according to the equations:  $I_{F(AV)} = I_M \times \delta$  with  $I_M$  defined as peak current,  $I_{RMS} = I_{F(AV)}$  at DC, and  $I_{RMS} = I_M \times \sqrt{\delta}$  with  $I_{RMS}$  defined as RMS current.

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#### 8.1 Quality information

This product has been qualified in accordance with the Automotive Electronics Council (AEC) standard Q101 - Stress test qualification for discrete semiconductors, and is suitable for use in automotive applications.

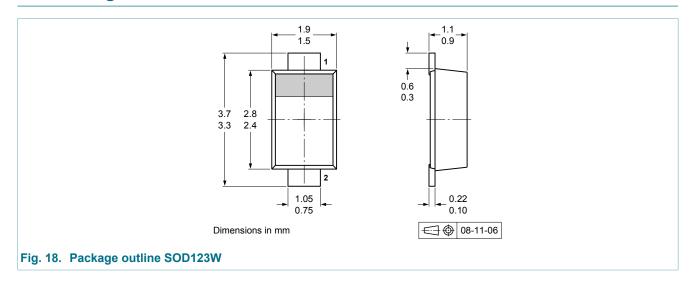
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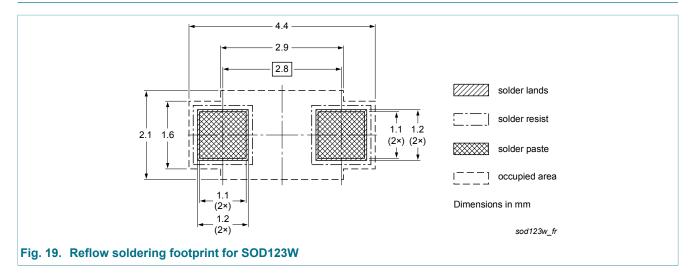
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## 9. Package outline



## 10. Soldering



## 11. Revision history

Table 8. Revision history

Tuble 0. Revision history							
Data sheet	ID	Release date	Data sheet status	Change notice	Supersedes		
PMEG6010	ETR v.1	20121010	Product data sheet	-	-		

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## 12. Legal information

#### 12.1 Data sheet status

Document status [1][2]	Product status [3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

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#### **NXP Semiconductors**

## PMEG6010ETR

High-temperature 60 V, 1 A Schottky barrier rectifier

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