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Diodes

# Schottky barrier diode

## RB441Q-40

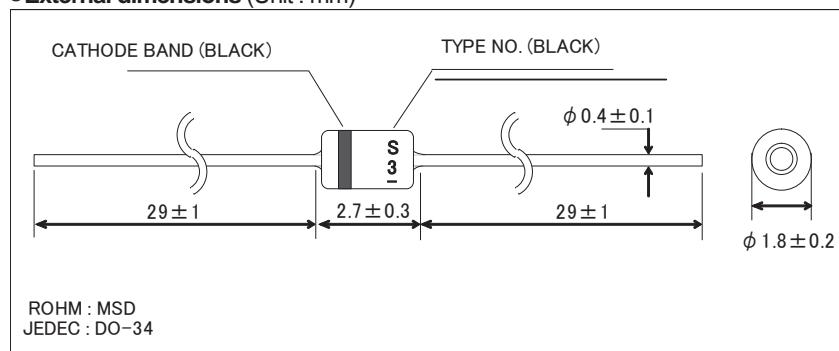
●Applications

Low current rectification

●Features

- 1) Glass sealed envelope. (MSD)
- 2) Low  $V_f$ , Low  $I_R$
- 3) High reliability

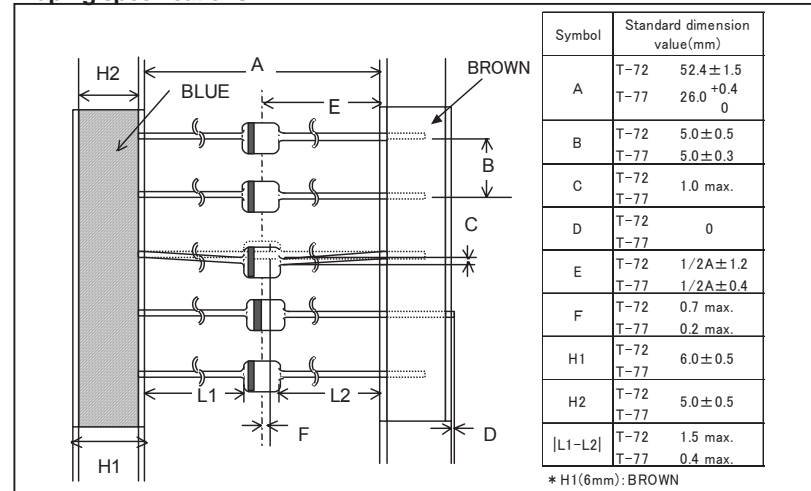
●External dimensions (Unit : mm)



●Construction

Silicon epitaxial planar

●Taping specifications



●Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current	$I_o$	100	mA
Forward current surge peak (60Hz · 1cyc)	$I_{FSM}$	1	A
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-40 to +125	°C

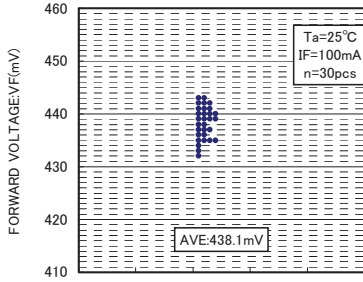
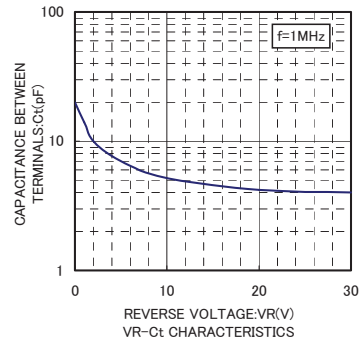
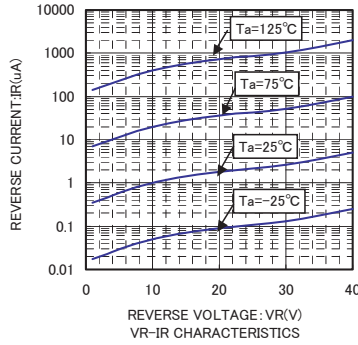
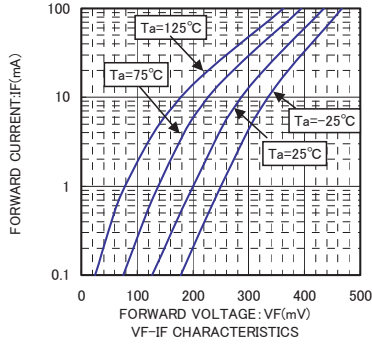
●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward current	$V_{f1}$	-	-	0.34	V	$I_F=10mA$
	$V_{f2}$	-	-	0.55	V	$I_F=100mA$
Reverse current	$I_R$	-	-	100	μA	$V_R=40V$
Capacitance between terminals	$C_t$	-	6.0	-	pF	$V_R=10V, f=1MHz$

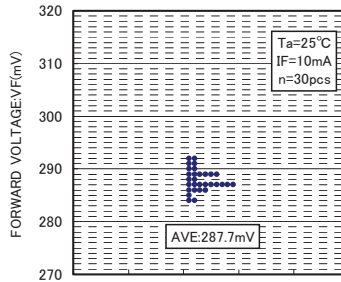
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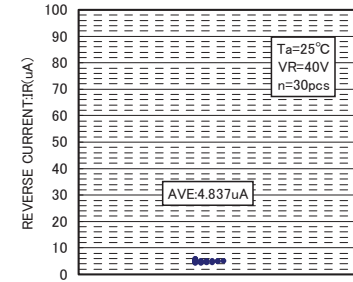
**●Electrical characteristic curves**



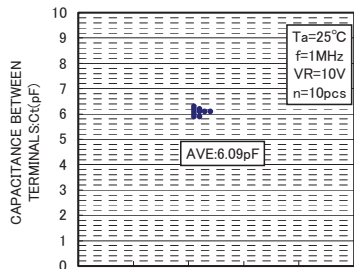
VF DISPERSION MAP



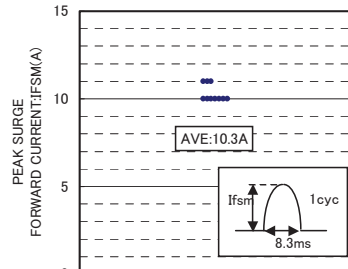
VF DISPERSION MAP



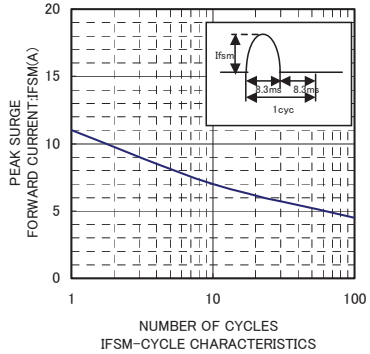
IR DISPERSION MAP



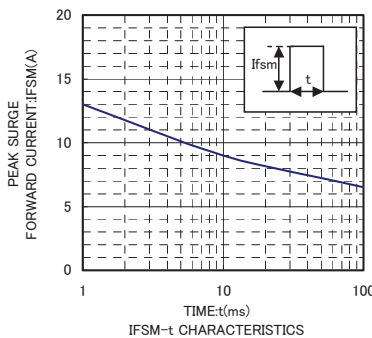
Ct DISPERSION MAP



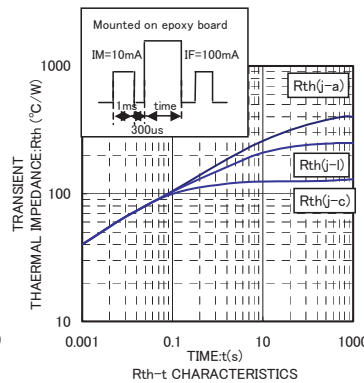
IFSM DISERSION MAP



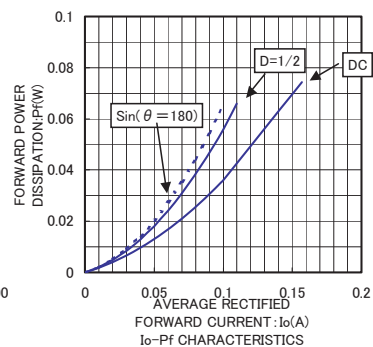
IFSM-CYCLE CHARACTERISTICS



IFSM-t CHARACTERISTICS



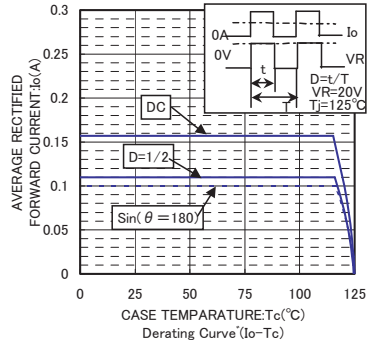
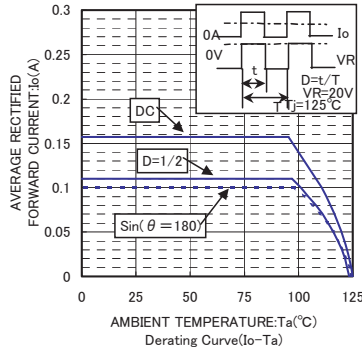
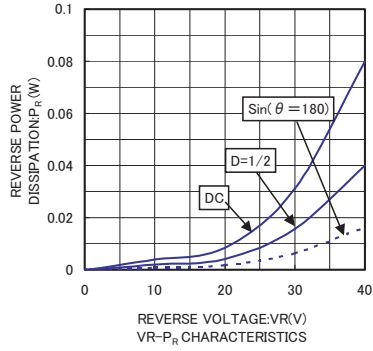
Rth-t CHARACTERISTICS



Io-Pf CHARACTERISTICS

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**Diodes**



## Appendix

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