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STMicroelectronics 1N5711

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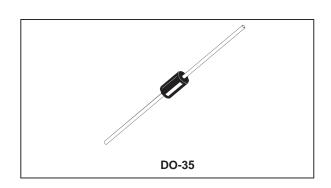


1N5711

SMALL SIGNAL SCHOTTKY DIODE

DESCRIPTION

Metal to silicon junction diode featuring high breakdown, low turn-on voltage and ultrafast switching. Primarly intended for high level UHF/VHF detection and pulse application with broad dynamic range. Matched batches are available on request



ABSOLUTE RATINGS (limiting values)

Symbol	Parameter	Value	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	70	V
I _F	Forward Continuous Current*	15	mA
P _{tot}	Power Dissipation*	430	mW
T _{stg} Tj	Storage and Junction Temperature Range	- 65 to 200 - 65 to 200	°C
T_L	Maximum Lead Temperature for Soldering duri from Case	230	°C

THERMAL RESISTANCE

Symbol	Test Conditions	Value	Unit
R _{th(j-a)}	Junction-ambient*	400	°C/W

ELECTRICAL CHARACTERISTICS

STATIC CHARACTERISTICS

Symbol	Test Conditions		Тур.	Max.	Unit
V_{BR}	$T_{amb} = 25$ °C $I_R = 10\mu A$	70			V
V _F * *	$T_{amb} = 25$ °C $I_F = 1$ mA			0.41	V
	$T_{amb} = 25$ °C $I_F = 15$ mA			1	
I _R * *	$T_{amb} = 25$ °C $V_R = 50V$			0.2	μА

DYNAMIC CHARACTERISTICS

Symbol	Test Conditions			Min.	Тур.	Max.	Unit
С	T _{amb} = 25°C	$V_R = 0V$	f = 1MHz			2	рF
τ	T _{amb} = 25°C	$I_F = 5mA$	Krakauer Method			100	ps

^{*} On infinite heatsink with 4mm lead length ** Pulse test: $t_p \leq 300 \mu s \ \delta < 2\%$.

October 2001 - Ed: 1B 1/3

Matched batches available on request. Test conditions (forward voltage and/or capacitance) according to customer specification.



1N5711

Fig. 1: Forward current versus forward voltage at low level (typical values).

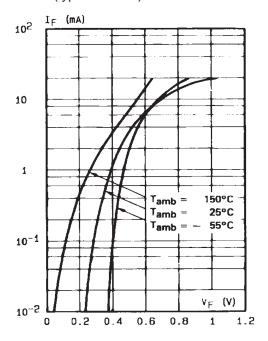


Fig. 2: Capacitance C versus reverse applied voltage $V_{\scriptscriptstyle R}$ (typical values).

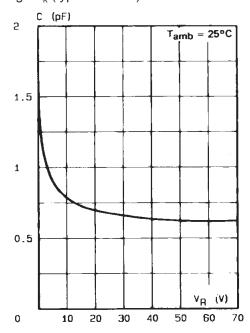


Fig. 3: Reverse current versus ambient temperature.

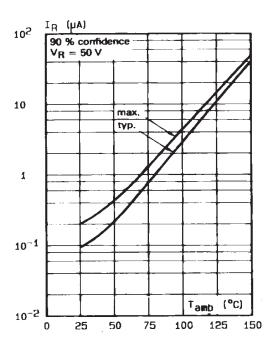
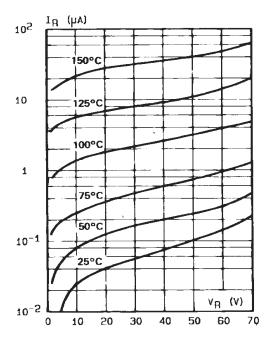


Fig. 4: Reverse current versus continuous reverse voltage (typical values).

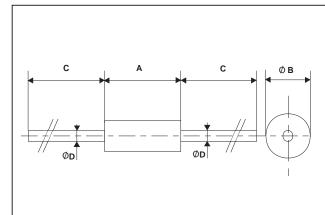




1N5711

PACKAGE MECHANICAL DATA

DO-35



REF.	DIMENSIONS			
	Millimeters		Inc	hes
	Min.	Max.	Min.	Max.
А	3.05	4.50	0.120	0.177
В	1.53	2.00	0.060	0.079
С	28.00		1.102	
D	0.458	0.558	0.018	0.022

Cooling method: by convection and conduction Marking: clear, ring at cathode end.

Weight: 0.15g

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