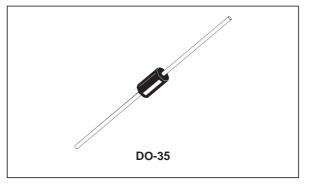


1N6263

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.



ABSOLUTE RATINGS (limiting values)

Symbol	Parameter		Value	Unit
V _{RRM}	Repetitive Peak Reverse Voltage		60	V
IF	Forward Continuous Current* T _a = 25°C		15	mA
I _{FSM}	Surge non Repetitive Forward Current*	t _p ≤ 1s	50	mA
T _{stg} Tj	Storage and Junction Temperature Range		- 65 to 200 - 65 to 200	°C
TL	Maximum Lead Temperature for Soldering during 10s at 4mm from Case		230	°C

THERMAL RESISTANCE

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

ELECTRICAL CHARACTERISTICS

STATIC CHARACTERISTICS

Symbol	Test Conditions	Min.	Тур.	Max.	Unit
V _{BR}	$T_{amb} = 25^{\circ}C$ $I_R = 10\mu A$	60			V
V _F * *	$T_{amb} = 25^{\circ}C$ $I_F = 1mA$			0.41	V
	$T_{amb} = 25^{\circ}C$ $I_F = 15mA$			1	
I _R * *	$T_{amb} = 25^{\circ}C$ $V_R = 50V$			0.2	μΑ

DYNAMIC CHARACTERISTICS

Symbol	Test Conditions		Min.	Тур.	Max.	Unit	
С	$T_{amb} = 25^{\circ}C$	$V_R = 0V$	f = 1MHz			2.2	рF
τ	$T_{amb} = 25^{\circ}C$	$I_F = 5mA$	Krakauer Method			100	ps

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

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

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

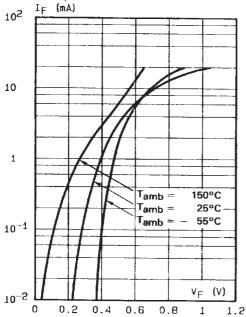


Fig. 2: Capacitance C versus reverse applied voltage V_{R} (typical values).

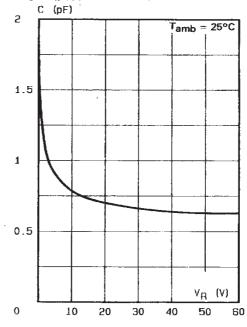


Fig. 3: Reverse current versus ambient temperature.

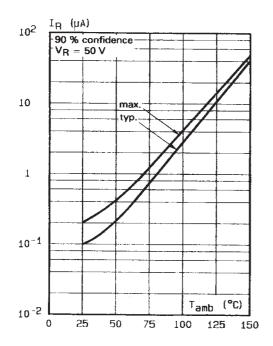
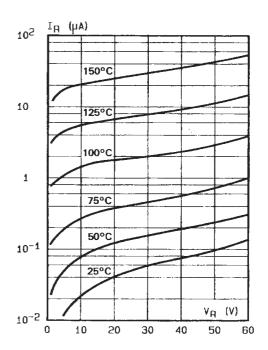


Fig. 4: Reverse current versus continuous reverse voltage (typical values).

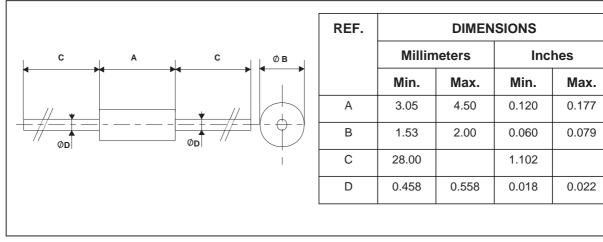


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PACKAGE MECHANICAL DATA





Cooling method : by convection and conduction Marking: clear, ring at cathode end. Weight: 0.15g

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