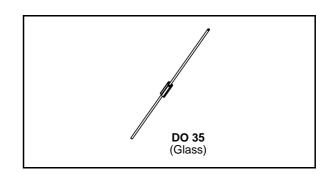


SMALL SIGNAL SCHOTTKY DIODE

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*	T _a = 25 °C	15	mA
P _{tot}	Power Dissipation*	T _a = 25°C	430	mW
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

	Symbol	Test Conditions	Value	Unit
Ī	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°C	$I_R = 10\mu A$		70			٧
V _F * *	T _{amb} = 25°C	$I_F = 1mA$				0.41	٧
	T _{amb} = 25°C	$I_F = 15mA$				1	
I _R * *	T _{amb} = 25°C	$V_R = 50V$				0.2	μΑ

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: $t_p \le 300 \mu s \ \delta < 2\%$.
Matched batches available on request. Test conditions (forward voltage and/or capacitance) according to customer specification.

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

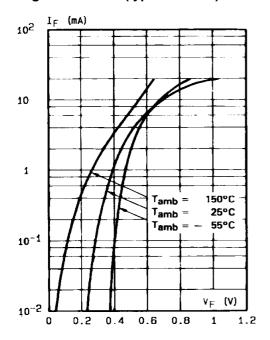


Figure 2. Capacitance C versus reverse applied voltage $V_{\mbox{\scriptsize R}}$ (typical values).

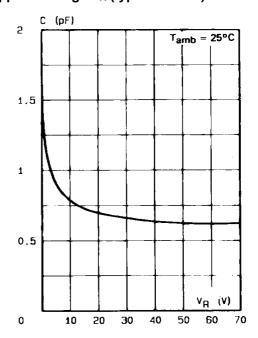


Figure 3. Reverse current versus ambient temperature.

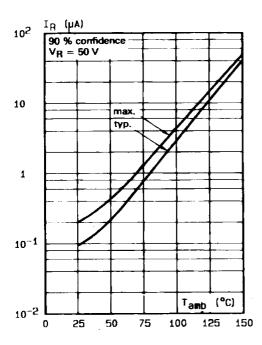
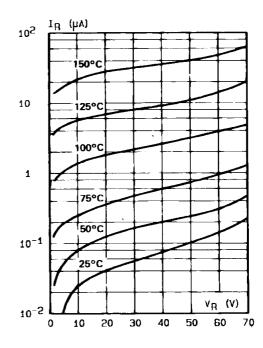


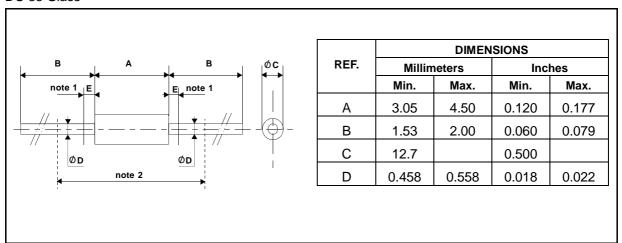
Figure 4. Reverse current versus continuous reverse voltage (typical values).



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PACKAGE MECHANICAL DATA

DO 35 Glass



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

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