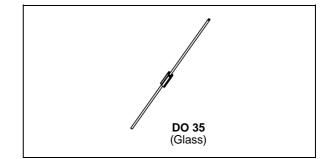


SMALL SIGNAL SCHOTTKY DIODE



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
l _F	Forward Continuous Current*	15	mA
I _{FSM}	Surge non Repetitive Forward Current*	50	mA
T _{stg} Tj	Storage and Junction Temperature Range	- 65 to 200 - 65 to 200	°C
TL	Maximum Lead Temperature for Soldering dul 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		Min.	Тур.	Max.	Unit		
V_{BR}	T _{amb} = 25°C	$I_R = 10\mu A$		60			>
V _F * *	T _{amb} = 25°C	$I_F = 1 \text{mA}$				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

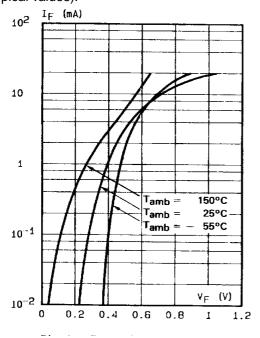
Symbol	Test Conditions				Тур.	Max.	Unit
С	$T_{amb} = 25^{\circ}C$	$V_R = 0V$	f = 1MHz			2.2	pF
τ	T _{amb} = 25°C	$I_F = 5mA$	Krakauer Method			100	ps

^{*} 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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Fig.1: Forward current versus forward voltage (typical values).



 $\label{eq:Fig.2} \textbf{Fig.2}: \mbox{ Capacitance } \mbox{ C versus reverse applied voltage } \mbox{ V_R (typical values)}.$

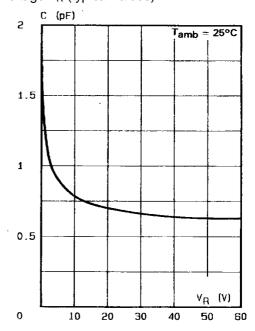


Fig.3: Reverse current versus ambient temperature.

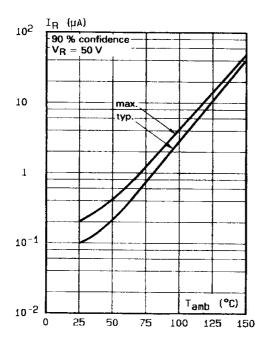
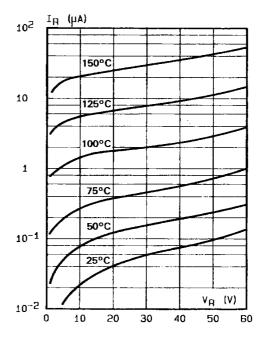
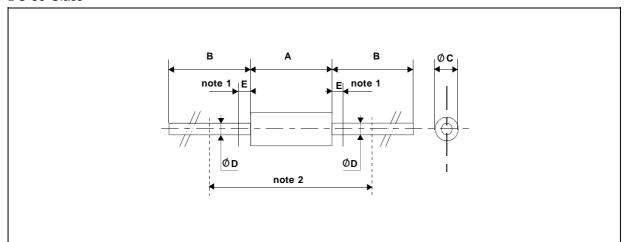


Fig.4: Reverse current versus continuous reverse voltage (typical values).



PACKAGE MECHANICAL DATA

DO 35 Glass



	DIMENSIONS			NOTES	
REF.	EF. Millimeters		Inches		
	Min.	Max.	Min.	Max.	
Α	3.050	4.500	0.120	0.117	1 - The lead diameter Ø D is not controlled over zone E
В	12.7		0.500		The lead diameter & B is not controlled over zone E
ØC	1.530	2.000	0.060	0.079	2 - The minimum axial lengh within which the device may be
ØD	0.458	0.558	0.018	0.022	placed with its leads bent at right angles is 0.59"(15 mm)
Е		1.27		0.050	

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

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