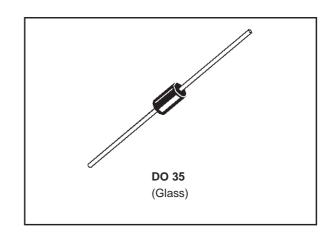


SMALL SIGNAL SCHOTTKY DIODE



DESCRIPTION

General purpose, metalto silicon diode featuring high breakdown voltage low turn-on voltage.

ABSOLUTE RATINGS (limiting values)

Symbol	Parameter	Value	Unit	
V_{RRM}	Repetitive Peak Reverse Voltage		100	V
l _F	Forward Continuous Current* $T_a = 25 ^{\circ}\text{C}$		150	mA
I _{FRM}	$\begin{array}{ll} \text{Repetitive Peak Forward Current*} & & t_p \leq 1s \\ \delta \leq 0.5 & & \\ \end{array}$		350	mA
I _{FSM}	Surge non Repetitive Forward Current* t _p = 10ms		750	mA
P _{tot}	Power Dissipation* $T_1 = 80^{\circ}C$		150	mW
T _{stg} T _j	Storage and Junction Temperature Range	- 65 to + 150 - 65 to + 125	°C	
T _L	Maximum Temperature for Soldering during 10s	230	°C	

THERMAL RESISTANCE

Symbol	Test Conditions	Value	Unit
R _{th(j-a)}	Junction-ambient*	300	°C/W

^{*} On infinite heatsink with 4mm lead length.

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ELECTRICAL CHARACTERISTICS

STATIC CHARACTERISTICS

Symbol	Test Conditions		Min.	Тур.	Max.	Unit
V_{BR}	$T_j = 25^{\circ}C$	$I_F = 10\mu A$	100			V
V _F *	T _j = 25°C	$I_F = 0.1 \text{mA}$			0.25	V
	$T_j = 25^{\circ}C$	I _F = 10mA			0.45	
	$T_j = 25^{\circ}C$	I _F = 250mA			1	
I _R *	T _j = 25°C	$V_{R} = 1.5V$			0.5	μА
	$T_j = 60^{\circ}C$				5	
	$T_j = 25^{\circ}C$	$V_R = 10V$			0.8	
	T _j = 60°C				7.5	
	T _j = 25°C	V _R = 50V			2	
	$T_j = 60^{\circ}C$				15	
	T _j = 25°C	V _R = 75V			5	
	$T_j = 60^{\circ}C$				20	

DYNAMIC CHARACTERISTICS

Symbol	Test Conditions			Min.	Тур.	Max.	Unit
С	T _j = 25°C	$V_R = 0V$	f = 1Mhz		10		pF
	T _j = 25°C	$V_R = 1V$			6		

^{*} Pulse test: $t_p \! \leq \! 300 \mu s \! \delta \! < \! 2\%$.

Fig. 1-1: Forward voltage drop versus forward current (low level, typical values)

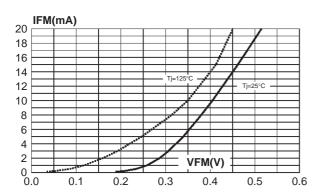


Fig. 1-2: Forward voltage drop versus forward current (high level, typical values)

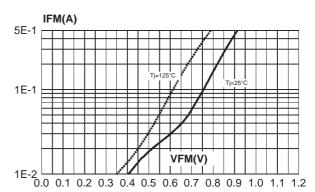


Fig. 2: Leakage current versus reverse voltage applied (typical values)

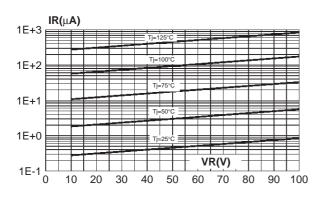


Fig. 3: Leakage current versus junction temperature (typical values)

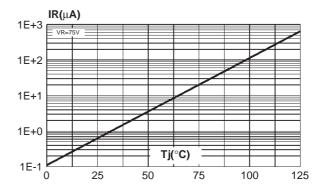
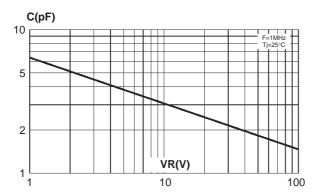
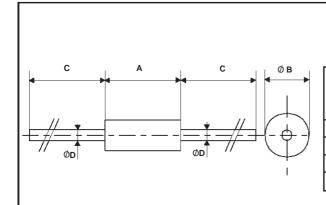


Fig.4: Junction capacitance versus reverse voltage applied (typical values)



PACKAGE MECHANICAL DATA

DO 35 Glass



	DIMENSIONS					
REF.	Millimeters		Inches			
	Min.	Max.	Min.	Max.		
Α	3.05	4.50	0.120	0.177		
В	1.53	2.00	0.060	0.079		
С	12.7		0.500			
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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