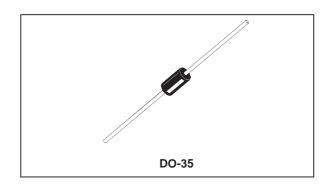


SMALL SIGNAL SCHOTTKY DIODE

DESCRIPTION

General purpose metal to silicon diode featuring very low turn-on voltage and fast switching.

This device has integrated protection against excessive voltage such as electrostatic discharges.



ABSOLUTE RATINGS (limiting values)

Symbol	Parameter	Value	Unit	
V_{RRM}	Repetitive Peak Reverse Voltage	100	V	
I _F	Forward Continuous Current*	100	mA	
I_{FRM}	Repetitive Peak Forward Current*	350	mA	
I _{FSM}	Surge non Repetitive Forward Current*	t _p ≤ 10ms	750	mA
P _{tot}	Power Dissipation*	100	mW	
T _{stg} Tj	Storage and Junction Temperature Range	- 65 to +150 - 65 to +125	°C	
T_L	Maximum Lead Temperature for Soldering d from Case	230	°C	

THERMAL RESISTANCE

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

ELECTRICAL CHARACTERISTICS

STATIC CHARACTERISTICS

Symbol	Test Conditions	Min.	Тур.	Max.	Unit
V_{BR}	$T_j = 25^{\circ}C$ $I_R = 100\mu A$	100			V
V _F * *	$T_j = 25^{\circ}C$ $I_F = 1mA$		0.4	0.45	V
	$T_j = 25^{\circ}C$ $I_F = 200mA$			1	
I _R * *	$T_j = 25^{\circ}C$ $V_R = 50^{\circ}$	V		0.1	μΑ
	$T_j = 100^{\circ}C$			20	

DYNAMIC CHARACTERISTICS

Symbol	Test Conditions			Min.	Тур.	Max.	Unit
С	T _j = 25°C	$V_R = 1V$	f = 1MHz		2		pF

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

October 2001 - Ed: 1B 1/4

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

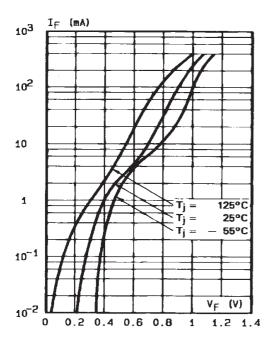


Fig. 2: Forward current versus forward voltage (typical values).

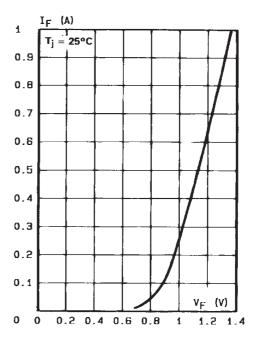


Fig. 3: Reverse current versus junction temperature.

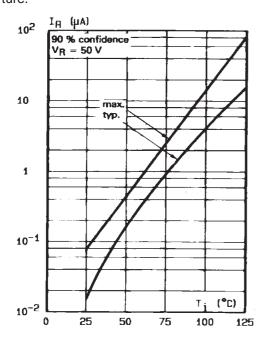


Fig. 4: Reverse current versus continuous reverse voltage (typical values).

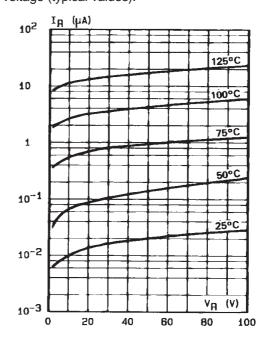
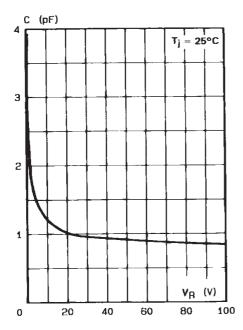
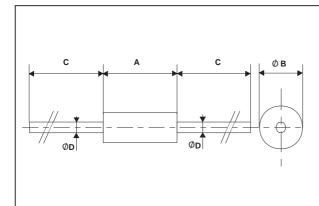


Fig. 5: Capacitance C versus reverse applied voltage $\rm V_{\scriptscriptstyle R}$ (typical values).



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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