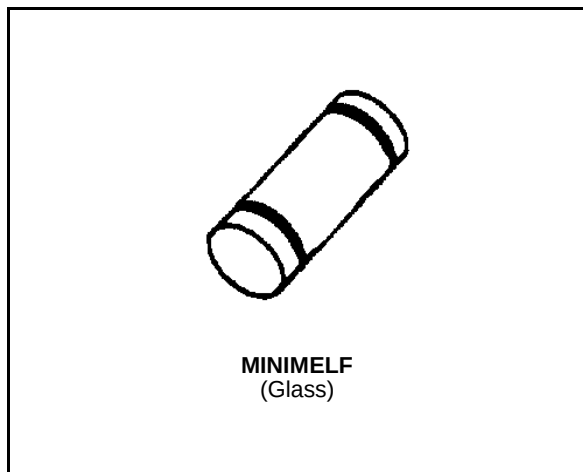


SMALL SIGNAL SCHOTTKY DIODE

DESCRIPTION

General purpose, metal to 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
I_F	Forward Continuous Current	$T_I = 25\text{ }^{\circ}\text{C}$	150	mA
I_{FRM}	Repetitive Peak Forward Current	$t_p \leq 1\text{ s}$ $\delta \leq 0.5$	350	mA
I_{FSM}	Surge non Repetitive Forward Current	$t_p = 10\text{ ms}$	750	mA
P_{tot}	Power Dissipation	$T_I = 80\text{ }^{\circ}\text{C}$	150	mW
T_{stg} T_j	Storage and Junction Temperature Range		- 65 to + 150 - 65 to + 125	$^{\circ}\text{C}$ $^{\circ}\text{C}$
T_L	Maximum Temperature for Soldering during 15s		260	$^{\circ}\text{C}$

THERMAL RESISTANCE

Symbol	Test Conditions	Value	Unit
$R_{th(j-l)}$	Junction-leads	300	$^{\circ}\text{C/W}$

ELECTRICAL CHARACTERISTICS

STATIC CHARACTERISTICS

Symbol	Test Conditions		Min.	Typ.	Max.	Unit
V_{BR}	$T_j = 25^{\circ}\text{C}$	$I_R = 100\mu\text{A}$	100			V
V_F^*	$T_j = 25^{\circ}\text{C}$	$I_F = 0.1\text{mA}$			0.25	V
	$T_j = 25^{\circ}\text{C}$	$I_F = 10\text{mA}$			0.45	
	$T_j = 25^{\circ}\text{C}$	$I_F = 250\text{mA}$			1	
I_R^*	$T_j = 25^{\circ}\text{C}$	$V_R = 1.5\text{V}$			0.5	μA
	$T_j = 60^{\circ}\text{C}$				5	
	$T_j = 25^{\circ}\text{C}$	$V_R = 10\text{V}$			0.8	
	$T_j = 60^{\circ}\text{C}$				7.5	
	$T_j = 25^{\circ}\text{C}$	$V_R = 50\text{V}$			2	
	$T_j = 60^{\circ}\text{C}$				15	
	$T_j = 25^{\circ}\text{C}$	$V_R = 75\text{V}$			5	
	$T_j = 60^{\circ}\text{C}$				20	

DYNAMIC CHARACTERISTICS

Symbol	Test Conditions			Min.	Typ.	Max.	Unit
C	$T_j = 25^{\circ}\text{C}$	$V_R = 0\text{V}$	$f = 1\text{MHz}$		10		pF
	$T_j = 25^{\circ}\text{C}$	$V_R = 1\text{V}$			6		

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

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

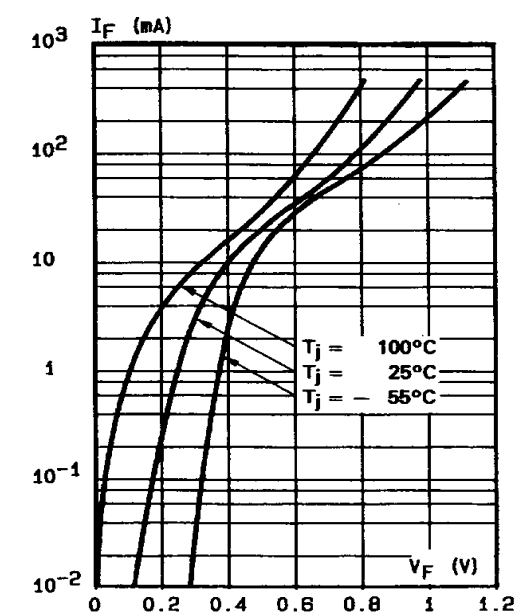


Figure 2. Forward current versus forward voltage (typical values).

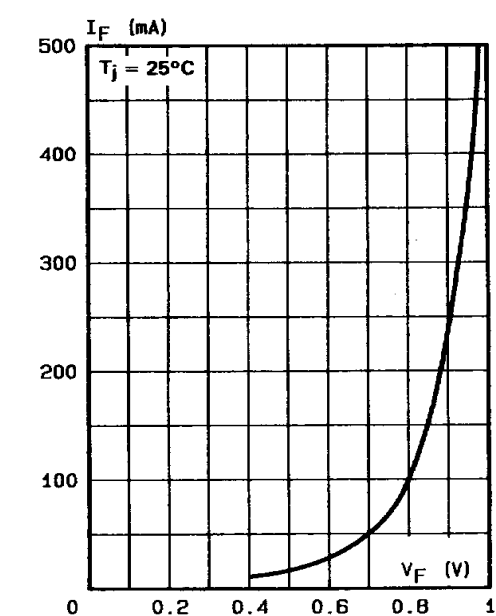


Figure 3. Reverse current versus junction temperature (typical values).

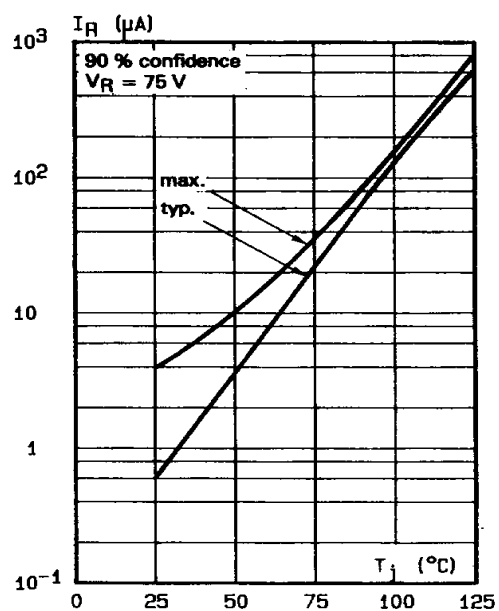


Figure 4. Reverse current versus continuous reverse voltage.

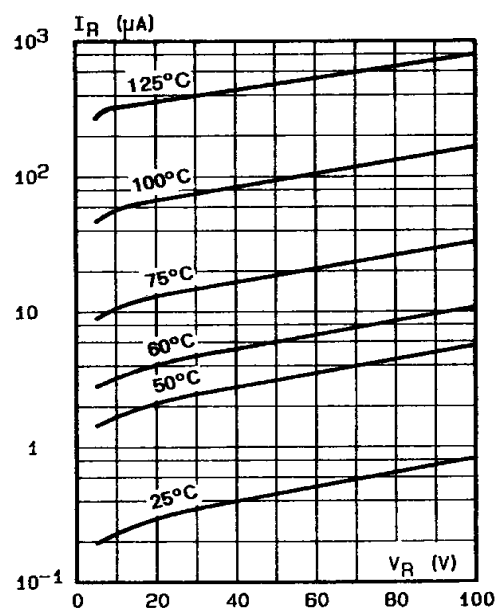
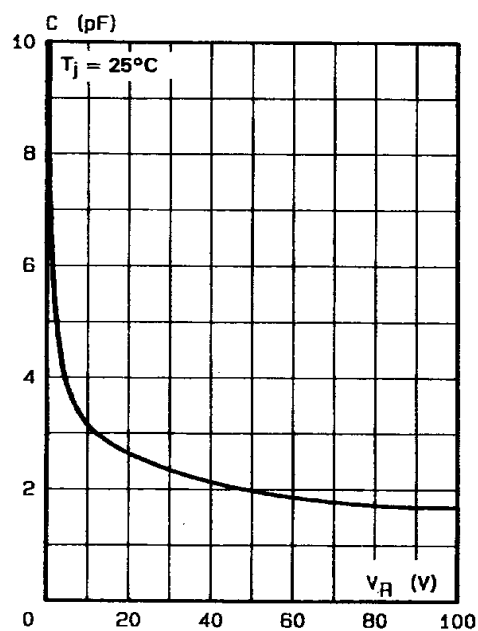
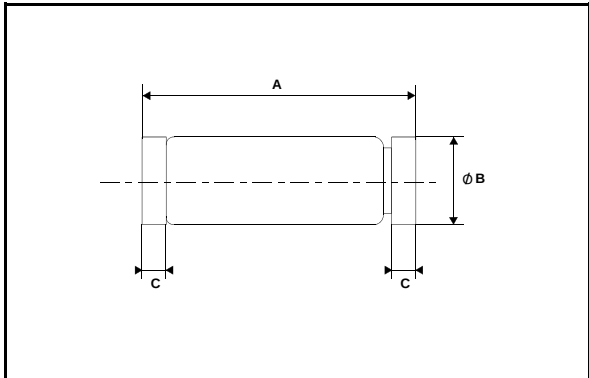


Figure 5. Forward current versus forward voltage (typical values).



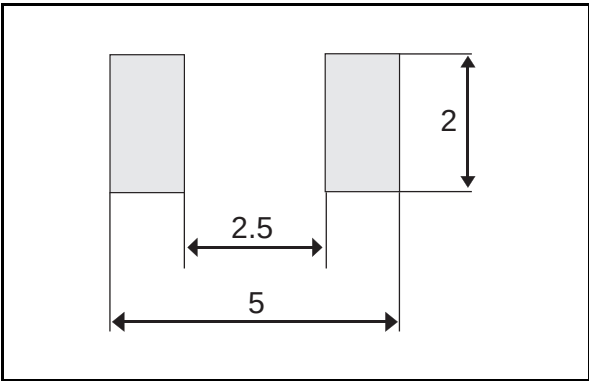
PACKAGE MECHANICAL DATA

MINIMELF Glass



REF.	DIMENSIONS					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	3.30	3.40	3.6	0.130	0.134	0.142
B	1.59	1.60	1.62	0.063	0.063	0.064
C	0.40	0.45	0.50	0.016	0.018	0.020
D		1.50			0.059	

FOOT PRINT DIMENSIONS (Millimeter)



Marking: ring at cathode end.
Weight: 0.05g

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