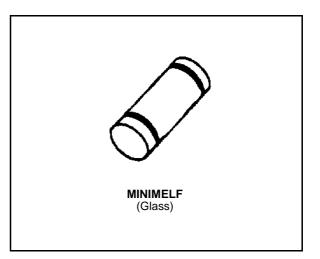


TMMBAT 46

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	150	mA
I _{FRM}	Repetitive Peak Fordware Current	350	mA
I _{FSM}	Surge non Repetitive Forward Current	750	mA
P _{tot}	Power Dissipation	150	mW
T _{stg} T _j	Storage and Junction Temperature Range	- 65 to + 150 - 65 to + 125	°C °C
TL	Maximum Temperature for Soldering during	260	°C

THERMAL RESISTANCE

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

ELECTRICAL CHARACTERISTICS

STATIC CHARACTERISTICS

Symbol		Test Conditions	Min.	Тур.	Max.	Unit
V _{BR}	T _j = 25°C	I _R = 100μA	100			V
V _F *	T _j = 25°C	$I_F = 0.1 \text{mA}$			0.25	V
	T _j = 25°C	$I_F = 10 \text{mA}$			0.45	
	T _j = 25°C	$I_F = 250 \text{mA}$			1	
I _R *	T _j = 25°C	V _R = 1.5V			0.5	μΑ
	$T_j = 60^{\circ}C$				5	
	T _j = 25°C	V _R = 10V			0.8	
	$T_j = 60^{\circ}C$				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	$T_j = 25^{\circ}C$	$V_R = 0V$	f = 1MHz		10		pF
	$T_j = 25^{\circ}C$	$V_R = 1V$			6		

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

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

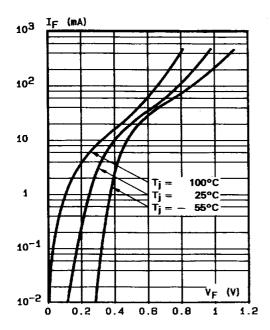
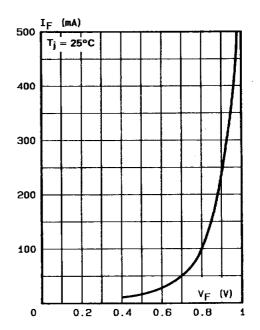


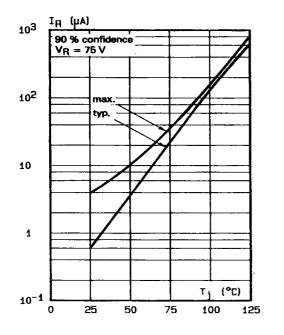
Figure 2. Forward current versus forward voltage (typical values).



57

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

Figure 4. Reverse current versus continuous reverse voltage.



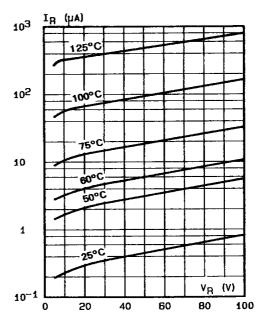
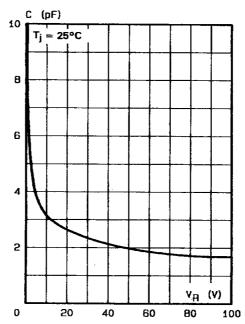


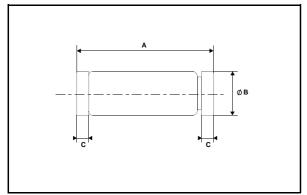
Figure 5. Forward current versus forward voltage (typical values).



57

PACKAGE MECHANICAL DATA

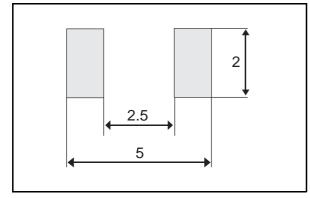
MINIMELF Glass



	DIMENSIONS						
REF.	м	Millimeters			Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.	
А	3.30	3.40	3.6	0.130	0.134	0.142	
В	1.59	1.60	1.62	0.063	0.063	0.064	
С	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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