Micro Commercial Components
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LL48

Small Signal Schottky Diode

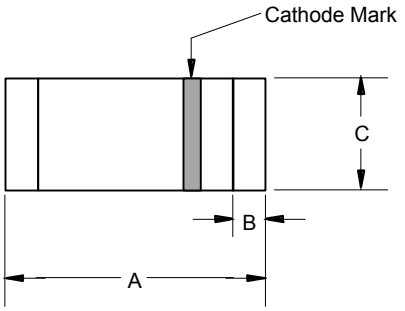
Features

- Fast Switching Speed
- Protected by a PN junction guard ring against excessive
- Low Turn-on Voltage
- For General Purpose Application

Mechanical Data

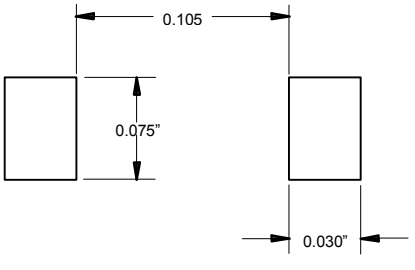
- Case: Minimelf, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Indicated by Cathode Band
- Weight: 0.05 grams (approx.)

MINIMELF



DIMENSION					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.134	.142	3.40	3.60	
B	.008	.016	0.20	0.40	
C	.055	.059	1.40	1.50	

SUGGESTED SOLDER PAD LAYOUT



Maximum Ratings @ 25°C Unless Otherwise Specified

Characteristic	Symbol	Value	Unit
Peak Reverse Voltage	V_{RRM}	40	V
Forward Continuous Current(Note1)	I_F	350	mA
Surge Forward Current @ t_p< 10ms, T_A=25°C	I_{FSM}	7.5	A
Power Dissipation(Note 1)	P_{tot}	330	mW
Thermal Resistance(Note 1)	$R_{\theta JA}$	300	K/W
Operation Temperature Range	T_A	-55 to 125	°C
Storage Temperature Range	T_{STG}	-55 to 150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Min	Typ.	Max	Unit	Test Cond.
Reverse Breakdown Volt.	$V_{(BR)R}$	40	-----	-----	V	100uA pulse
Reverse Leakge Current.	I_R	-----	-----	2 15 5 25 25 50	uA	V_R=10V V_R=10V, T_J=60°C V_R=20V V_R=20V, T_J=60°C V_R=40V V_R=40V, T_J=60°C
Forward Volt. Drop	V_F	-----	-----	0.25 0.45 0.90	V	I_F=0.1mA I_F=10mA I_F=250mA
Junction Capacitance	C_{tot}	-----	2.0	-----	pF	V_R=1V, f=1MHz

Note: 1. Valid provided that electrodes are kept at ambient temperature

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

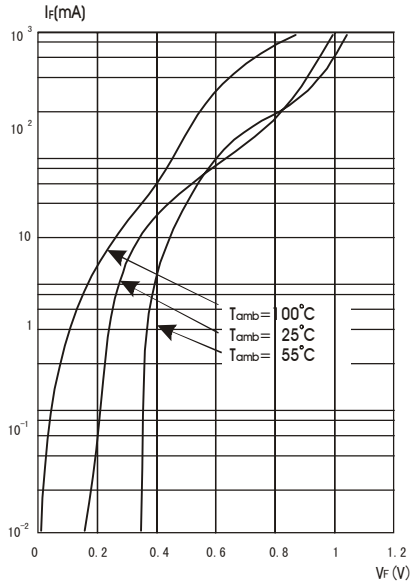


Figure 2. Forward current versus forward voltage (typical values)

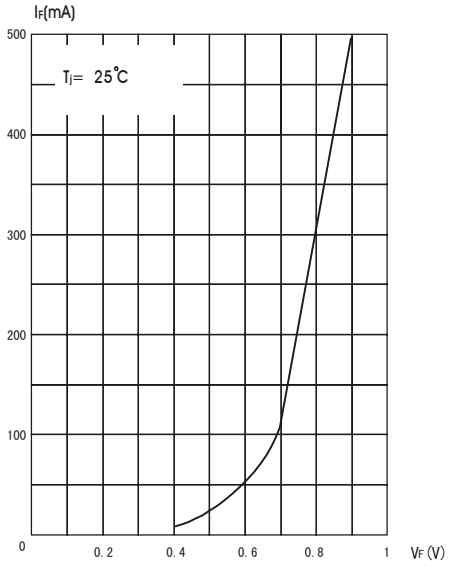


Figure 3.Reverse current versus ambient temperatures

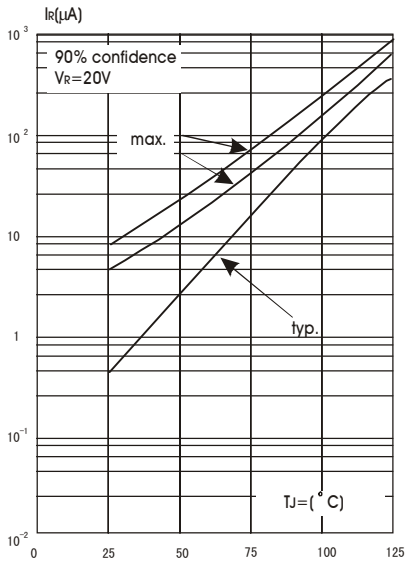


Figure 4.Reverse current versus continuous Reverse voltage(typical values)

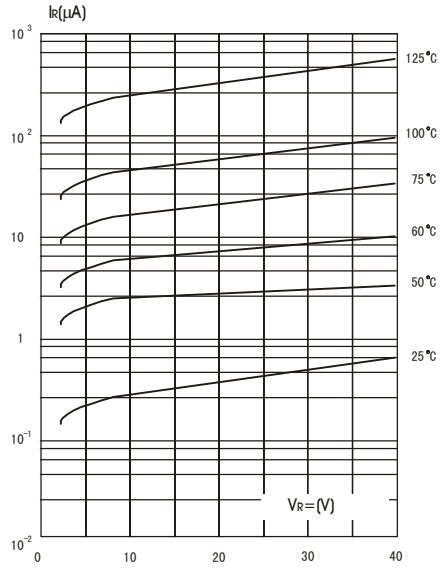


Figure 5.Capacitance C versus reverse applied voltage VR (typical values)