PANJIT SEMI CONDUCTOR

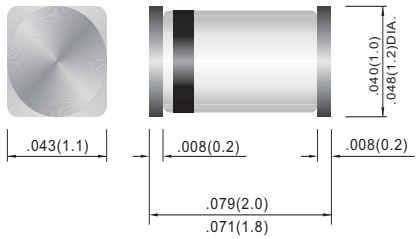
GRANDE.LTD.

LMSD103A~LMSD103C

SMALL SIGNAL SCHOTTKY BARRIES SWITCHING DIODES

VOLTAGE 20 to 40 Volts **CURRENT** 0.35 Amperes

MICRO-MELF Unit : inch (mm)



FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Low Reverse Recovery Time
- Low Reverse Capacitance
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: Molded Glass MICRO-MELF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram Below
- Approx. Weight: 0.011 grams
- Mounting Position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J =25°C unless otherwise noted)

PARAMETER	SYMBOL	LMSD103A	LMSD103B	LMSD103C	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	30	20	V
RMS Reverse Voltage	V_{RMS}	28	21	14	V
Max. Average Rectified Current	$I_{F(AV)}$	350			mA
Peak Forward Surge Current, t ≤0.3ms	I_{FSM}	15			A
Power Dissipation Derate Above 25°C	P_D	400			mW
Maximum Forward Voltage, I_F = 20mA I_F = 200mA	V_F	0.37 0.70			V
Maximum Reverse Current	I_R	5@30V	5@20V	5@10V	µA
Typical Junction Capacitance(Note 1)	C_J	50			pF
Typical Reverse Recovery (Note 2)	t_{rr}	10			ns
Typical Thermal Resistance	$R_{\theta JA}$	250			°C / W
Storage Temperature Range	T_{STG}	-65 to +175			°C

NOTE:

1. CJ at V_R=0, f=1MHZ
2. From I_F=50mA to I_R=200mA, R_L=100Ω

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RATING AND CHARACTERISTIC CURVES

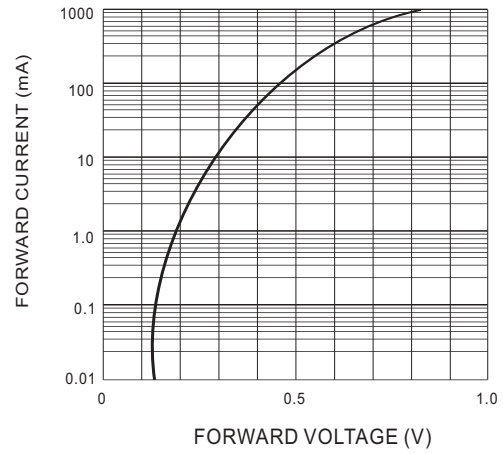

Fig.1 FORWARD CHARACTERISTICS

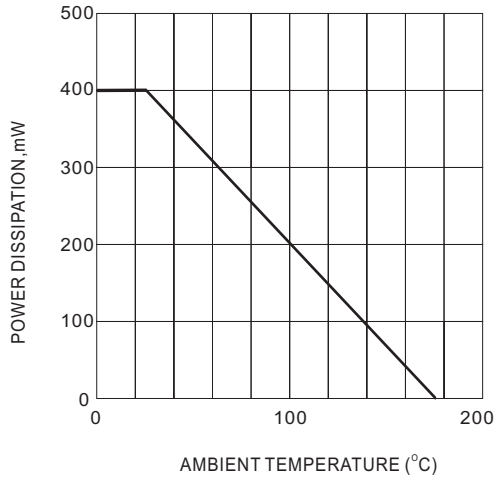

Fig.2 POWER DISSIPATION DERATING CURVE

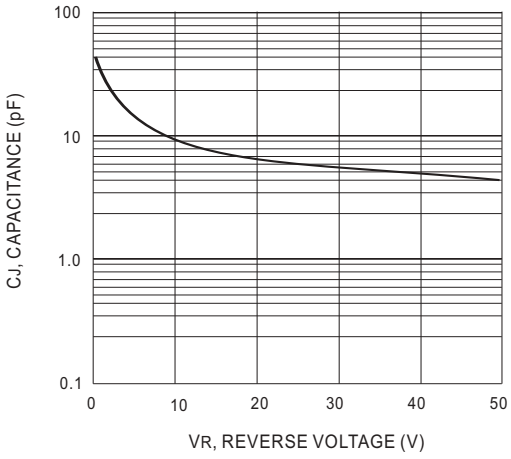

Fig.3 TYPICAL CAPACITANCE vs REVERSE VOLATGE

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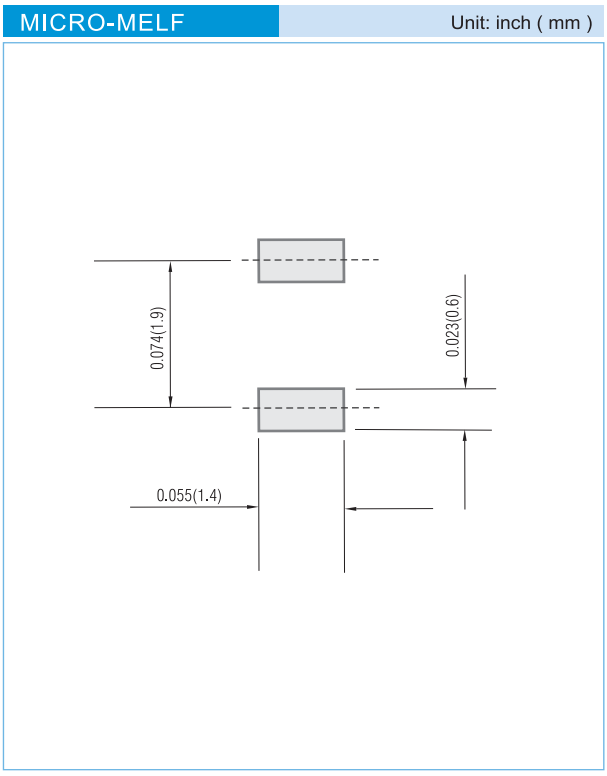
MOUNTING PAD LAYOUT

MICRO-MELF Unit: inch (mm)



ORDER INFORMATION

- Packing information

T/R - 10K per 13" plastic Reel

T/R - 2.5K per 7" plastic Reel

LEGAL STATEMENT

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