PANJIT SEMI CONDUCTOR

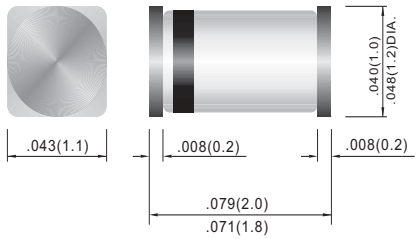
GRANDE.LTD.

LMSD103A~LMSD103C

SMALL SIGNAL SCHOTTKY BARRIES SWITCHING DIODES

VOLTAGE 20 to 40 Volt **CURRENT** 0.35 Ampere

MICRO-MELF Unit : inch (mm)



FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Low Reverse Recovery Time
- Low Reverse Capacitance
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)

MECHANICAL DATA

- Case: Molded Glass MICRO-MELF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0004ouces, 0.011 grams

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

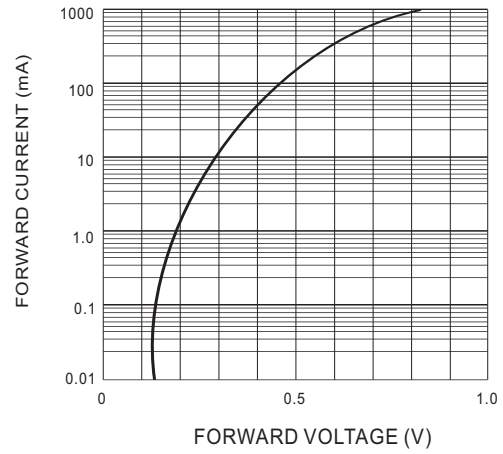


Fig.1 FORWARD CHARACTERISTICS

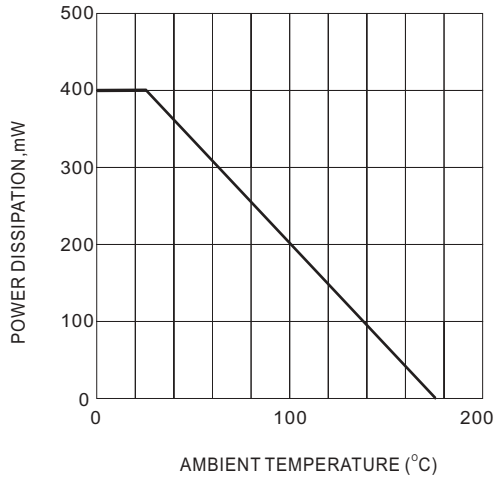


Fig.2 POWER DISSIPATION DERATING CURVE

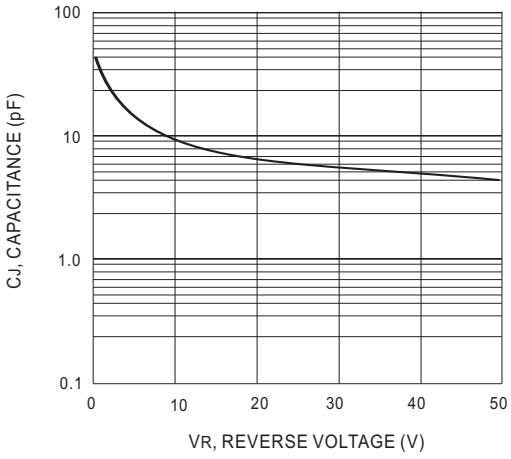
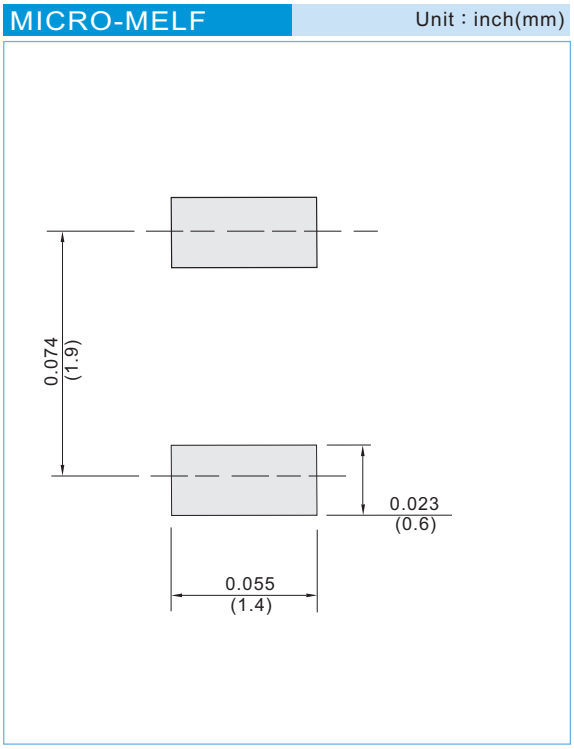


Fig.3 TYPICAL CAPACITANCE vs REVERSE VOLATGE

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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

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Part No_packing code_Version

LMSD103A_R1_00001

LMSD103A_R2_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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