

# MCL1SS355

## SWITCHING DIODES

**VOLTAGE** 80 Volts **POWER** 300 mWatts

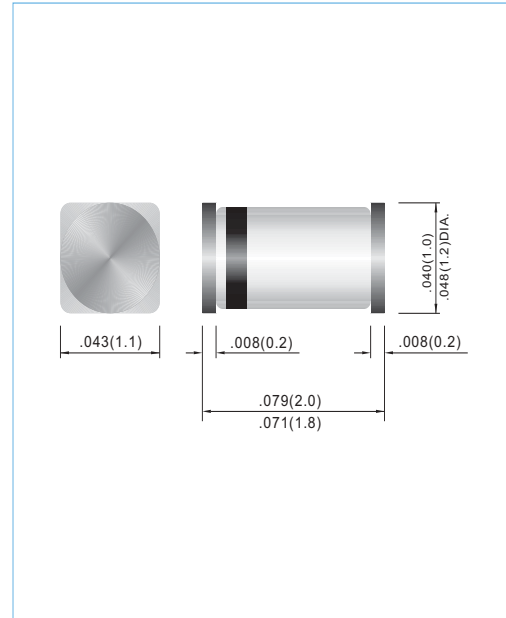
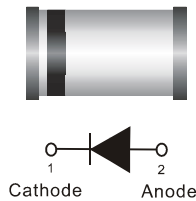
**MICRO-MELF** Unit : inch (mm)

### FEATURES

- High speed switching .
- Electrically Identical to Standard JEDEC
- High Conductanc
- Axial lead Package Ideally Suited for Automatic Insertion

### MECHANICAL DATA

- Case: MICRO MELF, Glass
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band
- Marking: Cathode Band Only



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>A</sub> =25°C unless otherwise noted)

PARAMETER	SYMBOL	MCL1SS355	UNITS
Reverse Voltage	V <sub>R</sub>	80	V
Peak Reverse Voltage	V <sub>RM</sub>	90	V
RMS Voltage	V <sub>RMS</sub>	90	V
Maximum Average Forward Current at T <sub>a</sub> =25°C And f ≥ 50Hz	I <sub>F(AV)</sub>	225	mA
Surge Forward Current at t < 1s and T <sub>J</sub> =25 °C	I <sub>FSM</sub>	500	mA
Power Dissipation at Tamb= 25 °C	P <sub>TOT</sub>	300	mW
Maximum Forward Voltage at I <sub>F</sub> =100mA	V <sub>F</sub>	1.2	V
Maximum Leakage Current at V <sub>R</sub> =80V	I <sub>R</sub>	0.1	μA
Maximum Capacitance (Note 1)	C <sub>J</sub>	3	pF
Maximum Reverse Recovery Time (Note 2)	T <sub>RR</sub>	4	ns
Maximum Thermal Resistance	R <sub>θJA</sub>	350	°C / W
Junction Temperature and Storage Temperature Range	T <sub>J</sub> ,T <sub>S</sub>	-65 to +175	°C

#### NOTE:

1. C<sub>J</sub> a V<sub>R</sub>=0.5V, f=1MHZ
2. Fro I<sub>F</sub>=10mA to I<sub>R</sub>=1mA, V<sub>R</sub>=6Volts, R<sub>L</sub>=50Ω

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## RATING AND CHARACTERISTIC CURVES

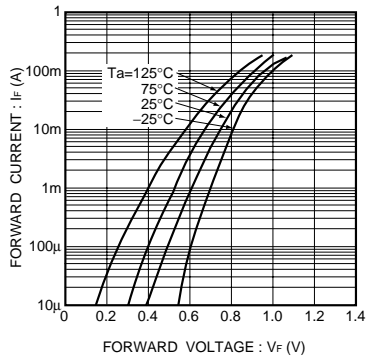


Fig.1 Forward characteristics

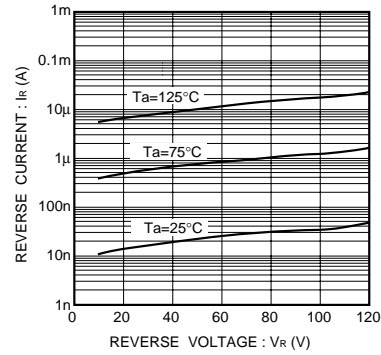


Fig.2 Reverse characteristics

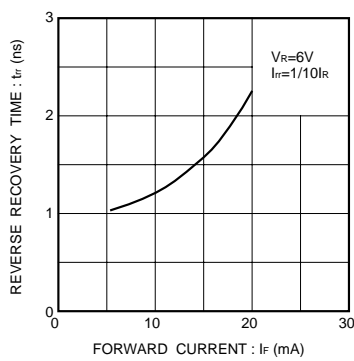


Fig.4 Reverse recovery time characteristics

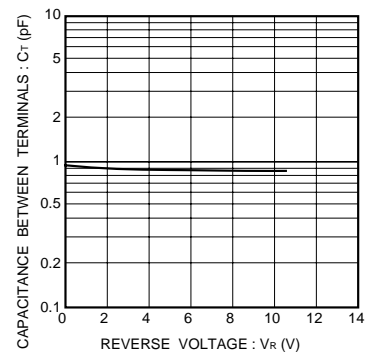


Fig.3 Capacitance between terminals characteristics

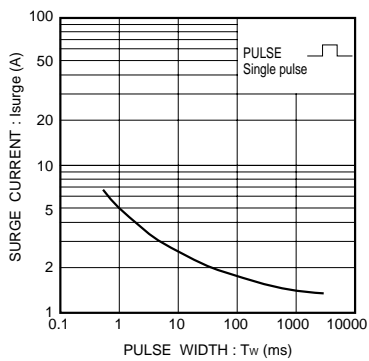


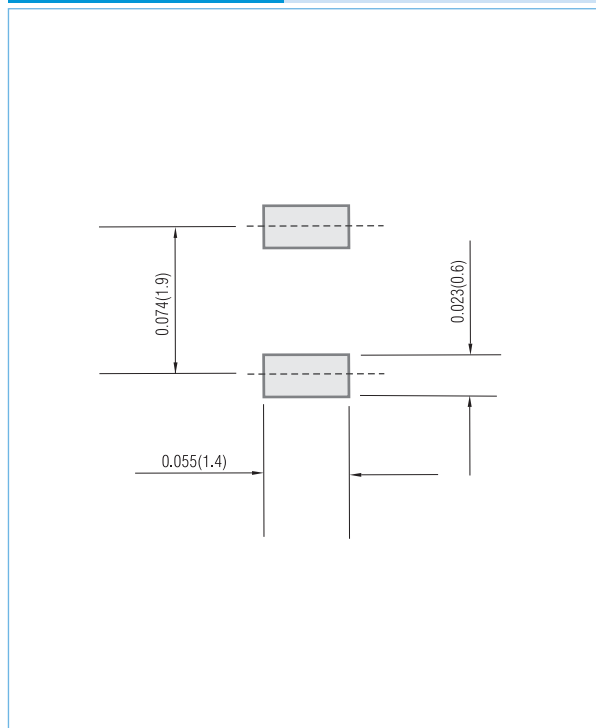
Fig.5 Surge current characteristics

# MCL1SS355

## MOUNTING PAD LAYOUT

MICRO-MELF

Unit: inch ( mm )



## ORDER INFORMATION

- Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

# MCL1SS355

Part No\_packing

code\_Version

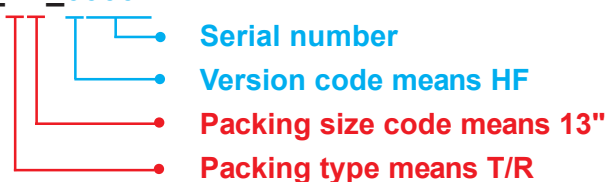
MCL1SS355\_R1\_10001

MCL1SS355\_R2\_10001

For example :

RB500V-40\_R2\_00001

Part No.



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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