

GLASS PASSIVATED SILICON RECTIFIER

VOLTAGE RANGE 600 Volts CURRENT 10.0 Amperes

FEATURES

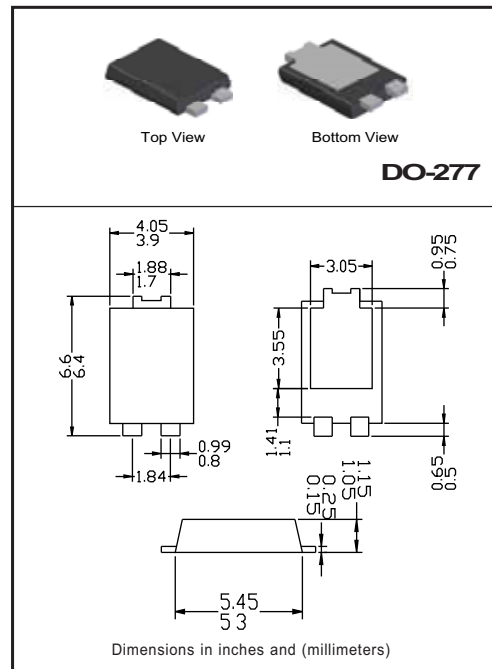
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High surge capability
- * High reliability

MECHANICAL DATA

- * Case: DO-277 molded plastic
- * Epoxy: Device has UL flammability classification 94V-0
- * Mounting position: Any
- * Halogen-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	MUR1060P	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	600	Volts
Maximum RMS Voltage	VRMS	420	Volts
Maximum DC Blocking Voltage	VDC	600	Volts
Maximum Average Forward Rectified Current at TC = 90 °C	IO	10	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	100	Amps
Typical Current Squared Time	i ² t	41.5	A ² S
Typical Thermal Resistance (Note 1)	RθJC	4.0	°C/W
	RθJA	8.3	
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150	°C

ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)

CHARACTERISTICS	SYMBOL	MUR1060P	UNITS
Maximum Instantaneous Forward Voltage at 10.0A DC	VF	2.0	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	@TA = 25°C	1.0
		@TA = 150°C	800
Reverse recovery time(Note 2)	Trr	35	nS

- NOTES : 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.
2. Test Conditions: IF= 0.5A, IR= -1.0A, IRR= -0.25A.
3. " ROHS compliant".

RATING AND CHARACTERISTICS CURVES (MUR1060P)

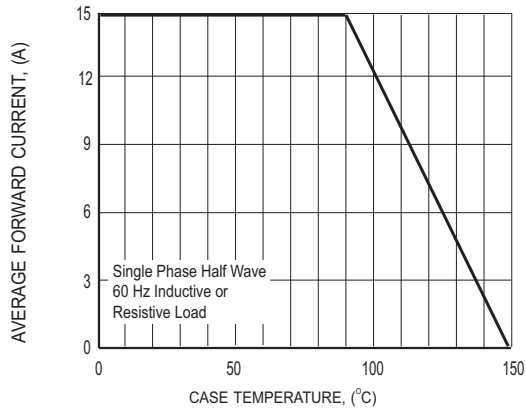


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

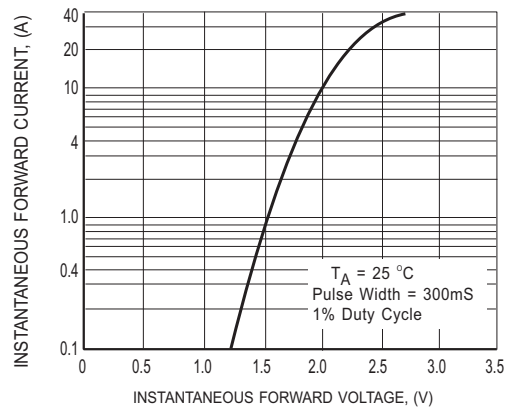


FIG.2 MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

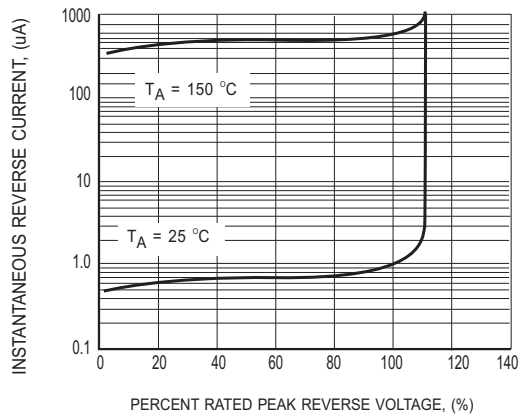


FIG.3 MAXIMUM REVERSE CHARACTERISTICS

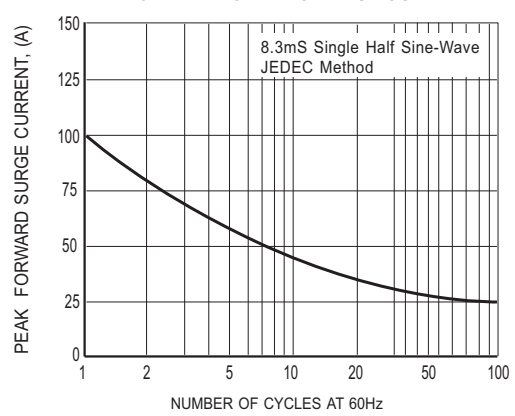
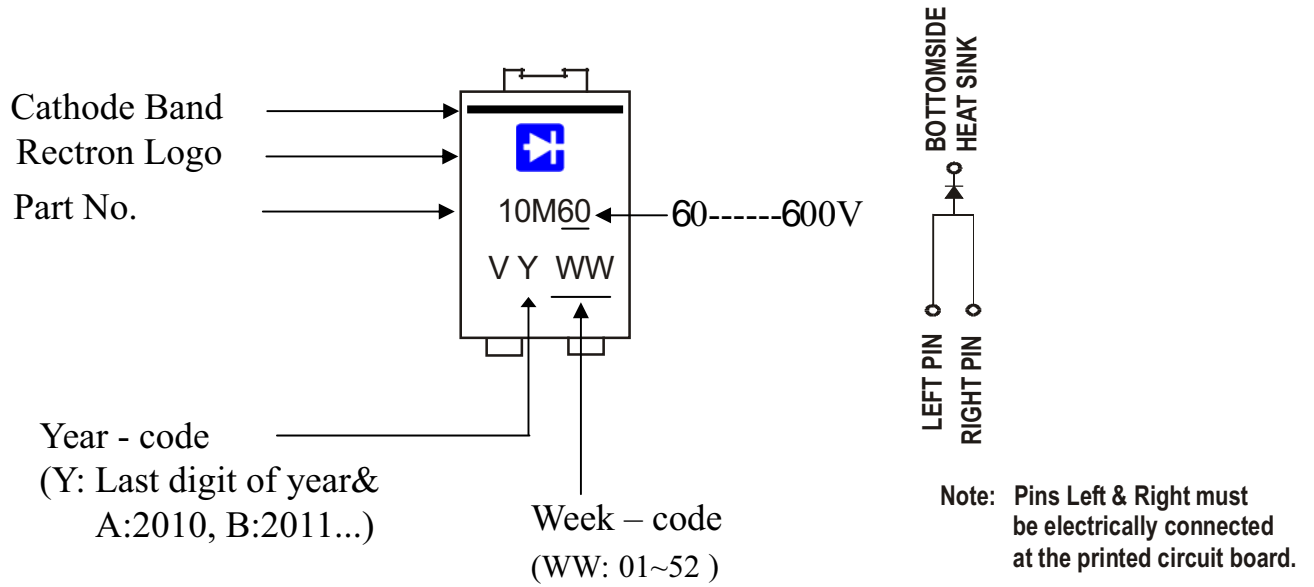
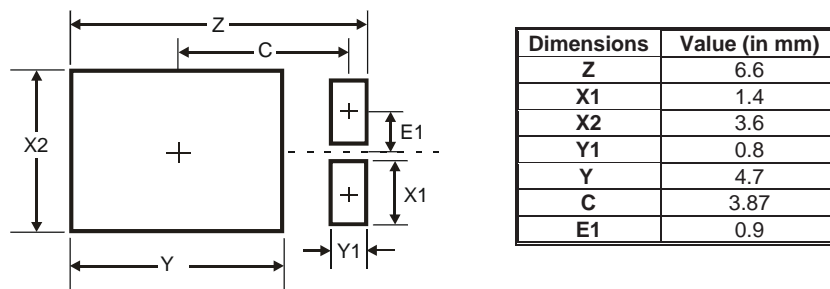


FIG.4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

Marking Description



Recommendation of Mounting Pad Layout



Dimensions in millimeters

REEL TAPING SPECIFICATIONS FOR SURFACE MOUNT DEVICES-FLAT MELF (DO-277)

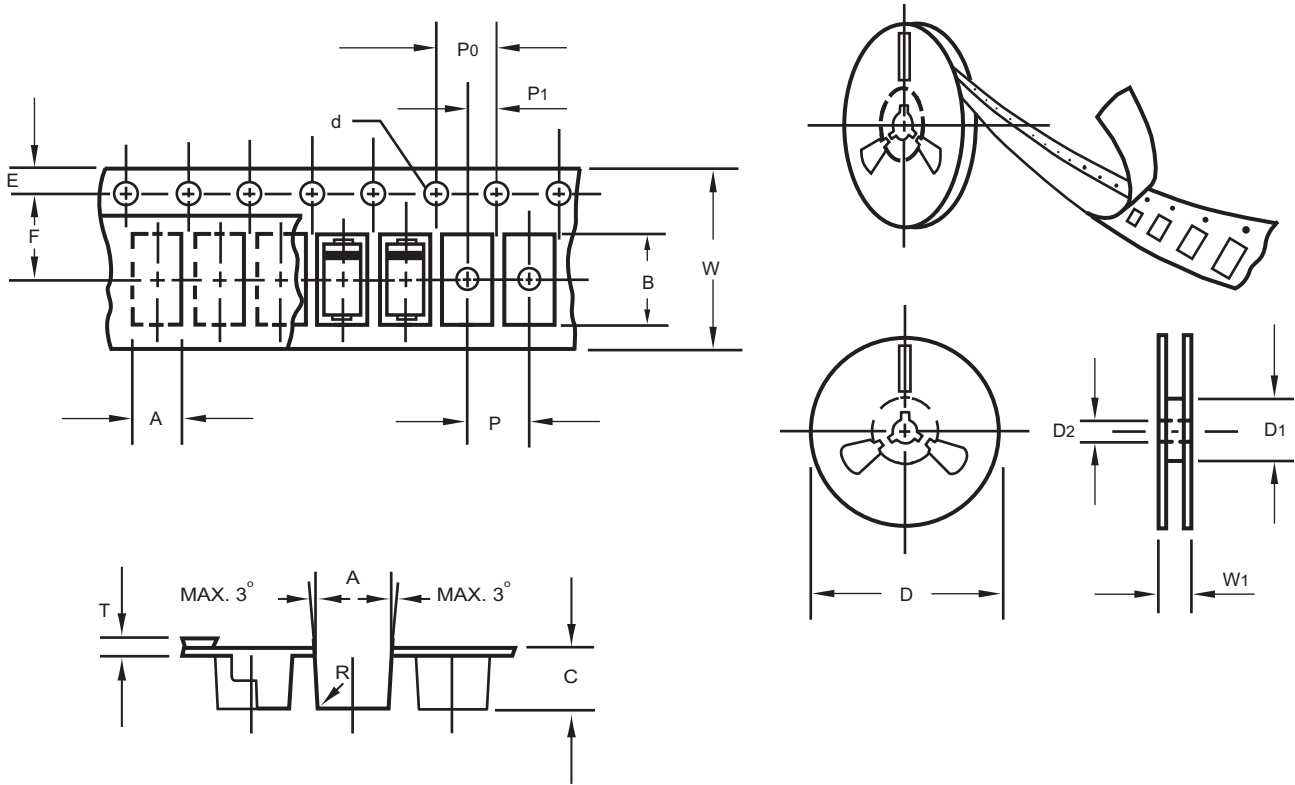
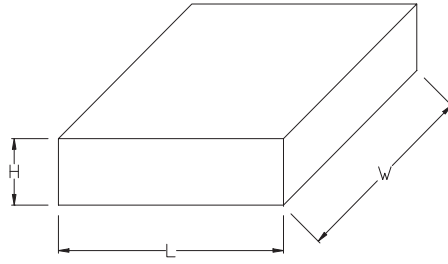


Fig.: Configuration of FLAT MELF TAPING
(DO-277)

ITEM	SYMBOL	DO-277 mm(inch)	
Carrier width	A	5.45 ± 0.1 (0.179 ± 0.004)	
Carrier length	B	6.80 ± 0.1 (0.268 ± 0.004)	
Carrier depth	C	1.33 ± 0.1 (0.052 ± 0.004)	
Sprocket hole	d	1.5 ± 0.1 (0.059 ± 0.004)	
Reel outside diameter	D	178 ± 2.0 (7.0 ± 0.079)	
Reel inner diameter	D ₁	50 Min.	
Feed hole diameter	D ₂	13 ± 0.5 (0.512 ± 0.020)	
Sprocket hole position	E	1.75 ± 0.1 (0.069 ± 0.004)	
Punch hole position	F	5.50 ± 0.05 (0.217 ± 0.002)	
Punch hole pitch	P	8.0 ± 0.1 (0.315 ± 0.004)	
Sprocket hole pitch	P ₀	4.0 ± 0.1 (0.157 ± 0.004)	
Embossment center	P ₁	2.00 ± 0.05 (0.079 ± 0.002)	
Total tape thickness	T	0.28 ± 0.02 (0.011 ± 0.001)	
Tape width	W	12.00 + 0.3 (0.472 + 0.012)	12.00 - 0.1 (0.472 - 0.004)
Reel width	W ₁	16.8 ± 2.0 (0.661 ± 0.079)	

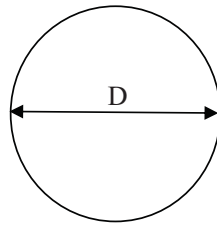
Note: 1.Devices are packed in accordance with EIA standard RS-481-A and specification given above.

1. BOX



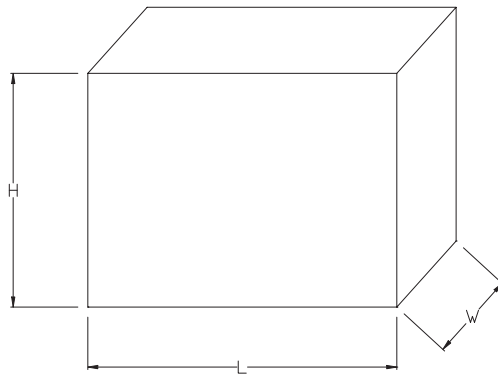
Packing Code	L (mm)	W (mm)	H (mm)
-T/W	338	338	40

2. REEL



Packing Code	D (mm)
-T/W	330

3. CARTON



Packing Code	L (mm)	W (mm)	H (mm)
-T/W	360	355	360

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DO-277	-T/W	5,000	10,000	---	---	330	360*355*360	80,000	15.29

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