



SCHOTTKY BARRIER RECTIFIER

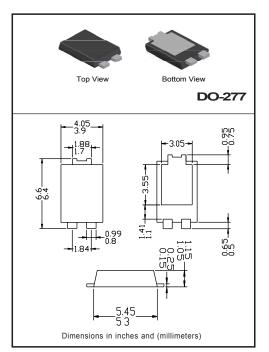
VOLTAGE 100 Volts CURRENT 10.0 Amperes

FEATURES

- * High reliability
- * Low switching loss
- * Low forward voltage drop
- * High current capability
- * High switching capability

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * Case: Molded plastic
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting: position: Any
- * Weight: 0.086 grams (approximate)
- * 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%.

RATINGS	SYMBOL	SR10100P	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	100	Volts
Maximum RMS Voltage	V _{RMS}	70	Volts
Maximum DC Blocking Voltage	VDC	100	Volts
Maximum Average Forward Rectified Current at Derating Case Temperature	Io	10.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150	
Typical Current Squared Time	I ² T	93.3	A ² S
Typical Thermal Resistance (Note 1)	R _{θJC}	2.0	°C/W
	R _{θJA}	60	
Typical Junction Capacitance (Note 2)	CJ	450	pF
Operating Temperature Range	TJ	150	٥C
Storage Temperature Range	T _{STG}	-55 to + 150	° C
ELECTRICAL CHARACTERISTICS(@TA=25 °C unless c	therwise noted)		
CHARACTERISTICS	SYMBOL	SR10100P	UNITS
Maximum Instantaneous Forward Voltage at 10.0A DC	VE	.85	Volts

0.2

2

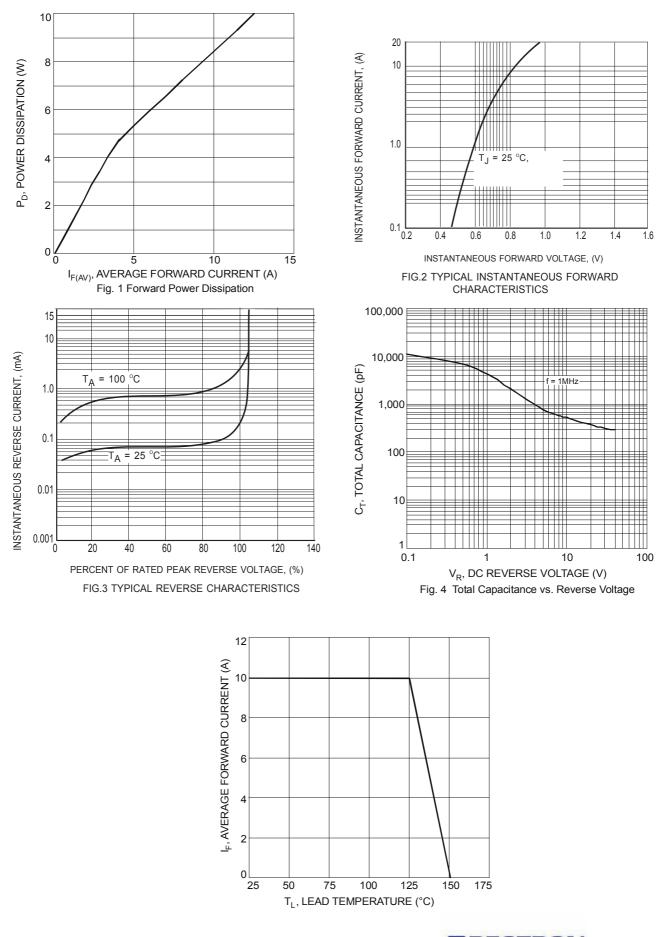
Maximum Average Reverse Current @T_A = 25°C I_R at Rated DC Blocking Voltage @T_A = 100°C

NOTES: 1. Thermal Resistance : Mounted on PCB. 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

mΑ 2015-07 REV: A

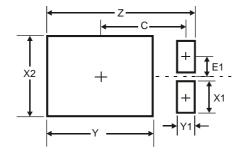
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RATING AND CHARACTERISTICS CURVES (SR10100P)



CRECTRON

Recommendation of Mounting Pad Layout

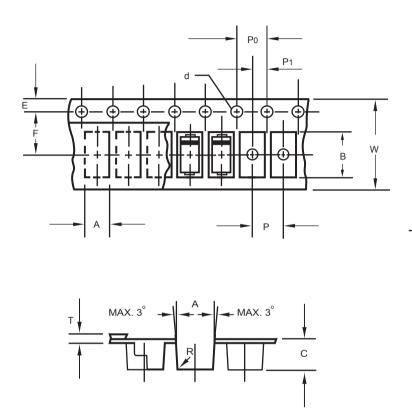


Dimensions	Value (in mm)
Z	6.6
X1	1.4
X2	3.6
Y1	0.8
Y2	4.7
С	3.87
E1	0.9

Dimensions in millimeters



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



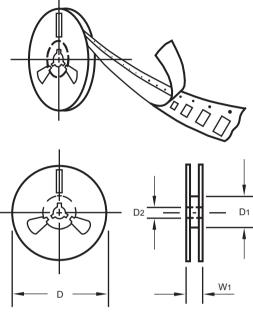
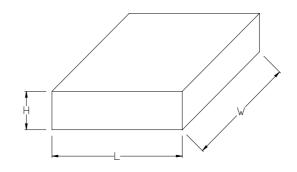


Fig.: Configuration of FLAT MELF TAPING (DO-277)

ITEM	SYMBOL	DO-277 mm(inch)
Carrier width	A	5.45 [±] 0.1(0.179 [±] 0.004)
Carrier length	В	6.80± 0.1 (0.268 ± 0.004)
Carrier depth	С	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	D1	50 Min.
Feed hole diameter	D2	13 ± 0.5 (0.512 ± 0.020)
Strocket 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	Р	8.0 ± 0.1 (0.315 ± 0.004)
Sprocket hole pitch	P0	4.0 ± 0.1 (0.157 ± 0.004)
Embossment center	P1	2.00 ±0.05 (0.079± 0.002)
Totall tape thickness	Т	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	W1	16.8 ± 2.0 (0.661 ± 0.079)

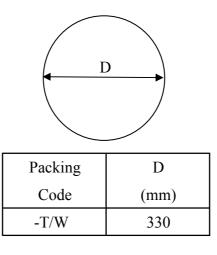
Note: 1.Devices are packed in accordance with EIA standard RS-481-A and specification given above.

1. BOX

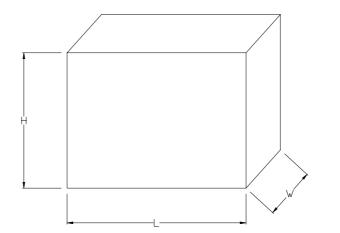


Packing	L	W	Н
Code	(mm)	(mm)	(mm)
-T/W	338	338	40

2. REEL



3. CARTON



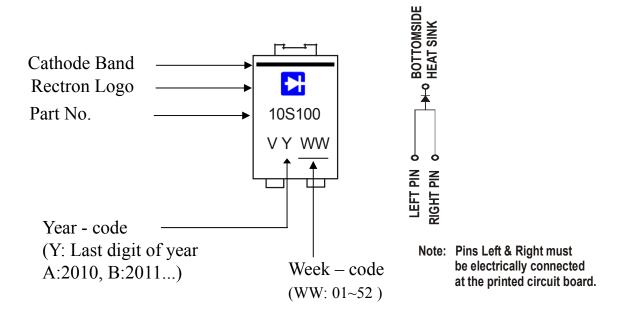
Packing	L	W	Н	
Code	(mm)	(mm)	(mm)	
-T/W	360	355	360	

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

Marking Description



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