

**SCHOTTKY BARRIER RECTIFIERS**

**Reverse Voltage - 300 V**

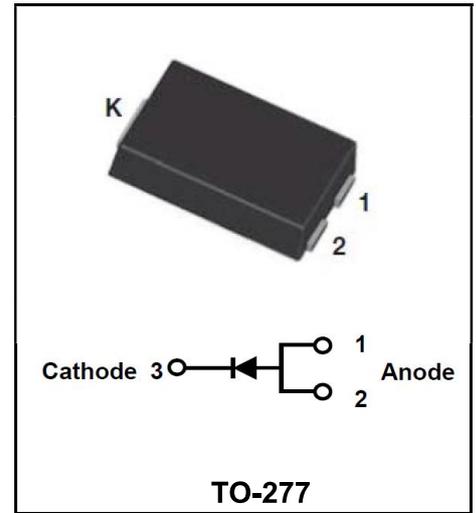
**Forward Current - 10 A**

**FEATURES**

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Built-in strain relief, ideal for automated placement
- ◆ Low forward voltage drop
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed 260°C/10 seconds at terminals

**MECHANICAL DATA**

- ◆ Case : Molded plastic body
- ◆ Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- ◆ Polarity : Polarity symbol marking on body
- ◆ Mounting Position : Any
- ◆ Weight : 0.003 ounce, 0.092 grams

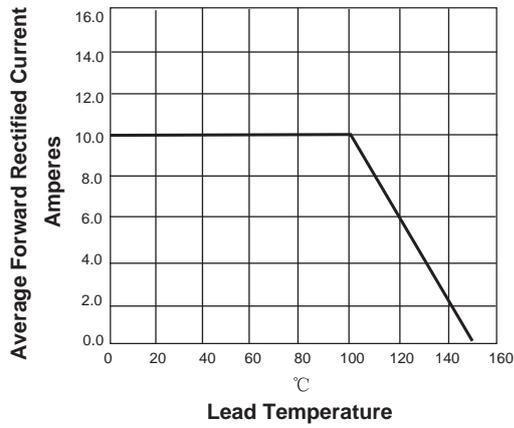


**Maximum Ratings** (Ta=25°C unless otherwise specified)

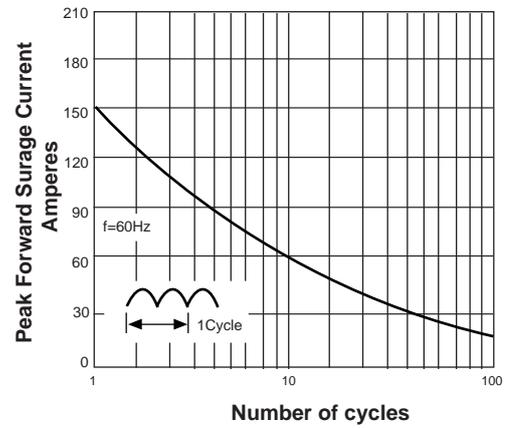
Parameter	Symbols	10L300SP	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	300	V
Maximum RMS voltage	$V_{RMS}$	210	V
Maximum DC Blocking Voltage	$V_{DC}$	300	V
Maximum Average Forward Rectified Current at $T_L=100^\circ\text{C}$	$I_{(AV)}$	10	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load	$I_{FSM}$	150	A
Maximum Instantaneous Forward Voltage at 10 A	$V_F$	0.85	V
Maximum Instantaneous Reverse Current at Rated DC Reverse Voltage	$I_R$	0.5 1	$\mu\text{A}$ <b>mA</b>
Typical Thermal Resistance	$R_{qJC}$	8	$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_j$	-55 ~ +150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 ~ +150	$^\circ\text{C}$

**Ratings And Characteristic Curves**

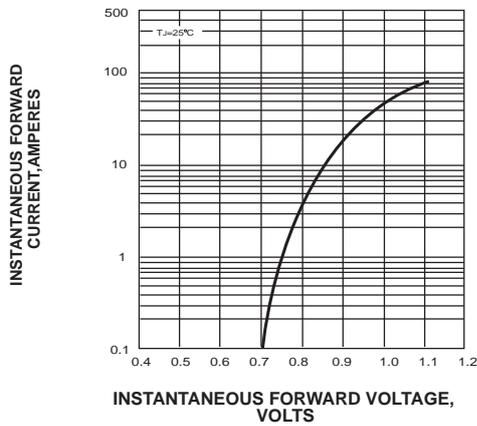
**FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT**



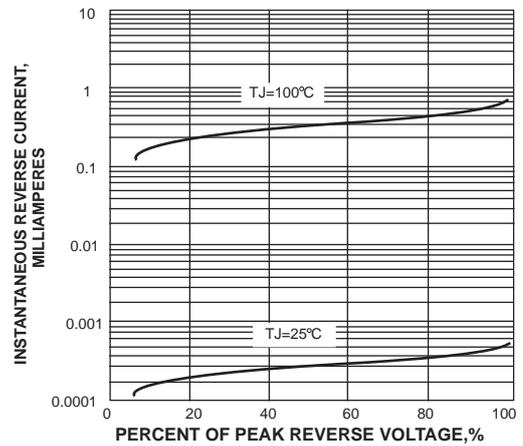
**FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG**



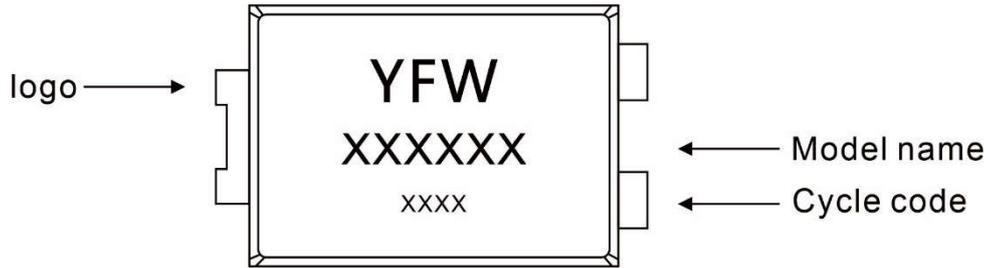
**FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS**



**FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS**



**Marking Diagram**



**Ordering information**

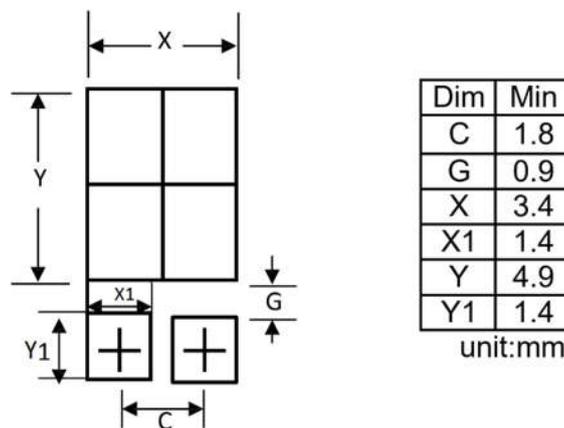
Package	Packing Description	Packing Quantity
TO-277	Tape/Reel, 13"reel	5000PCS/Reel 50000PCS/Carton

**Package Dimensions**

**TO-277**

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	1.1	1.2	43	47
A2	0.3	0.4	12	16
b1	0.8	1	32	39
b2	1.7	1.9	67	75
D	3.9	4.1	154	162
D1	3.054		120	
E	6.4	6.6	252	260
e	1.84		73	
E1	5.3	5.5	209	217
E2	3.549		140	
L	0.8	1	32	39
L1	0.5	0.7	20	28
W	1.1	1.4	43	55

**The recommended mounting pad size**



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