

**Surface Mount Schottky Barrier Rectifier**

**Reverse Voltage - 40 to 200 V**

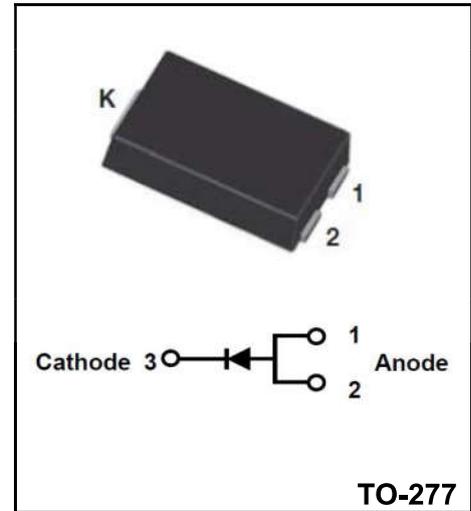
**Forward Current - 10 A**

**FEATURES**

- ◆The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆For surface mounted applications
- ◆Built-in strain relief, ideal for automated placement
- ◆Low reverse leakage
- ◆High forward surge current capability
- ◆High temperature soldering guaranteed 250 C/10 seconds at terminals
- ◆Lead free in comply with EU RoHS 2011/65/EU directives

**MECHANICAL DATA**

- ◆Case: TO-277
- ◆Terminals: Solderable per MIL-STD-750, Method 2026
- ◆Approx. Weight: 0.003g / 0.092oz



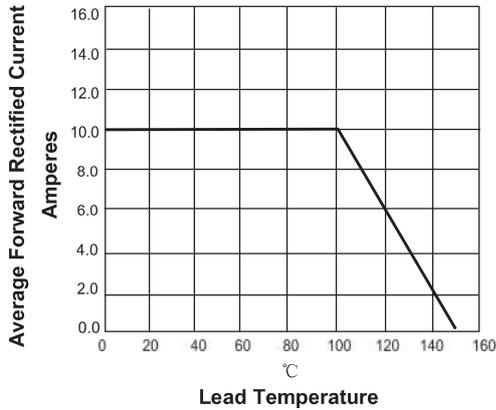
**Absolute Maximum Ratings and Electrical characteristics**

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

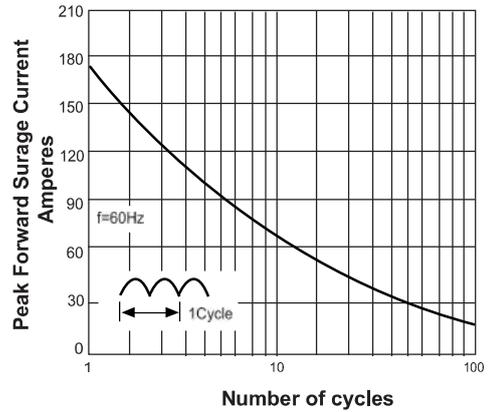
Parameter	Symbols	SS1040SP	SS1045SP	SS1060SP	SS1080SP	SS10100SP	SS10150SP	SS10200SP	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	40	45	60	80	100	150	200	v
Maximum RMS voltage	$V_{RMS}$	28	31.5	42	56	70	105	140	v
Maximum DC Blocking Voltage	$V_{DC}$	40	45	60	80	100	150	200	v
Maximum Average Forward Rectified Current TL=100°C	$I_{F(AV)}$	10.0							A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC method)	$I_{FSM}$	175.0							A
Maximum Instantaneous Forward Voltage at 10 A	$V_F$	0.55	0.70	0.85	0.95				v
Maximum Instantaneous Reverse Current at Rated DC Reverse Voltage $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	$I_R$	0.5 50		0.05 10					mA
Typical Thermal Resistance	$R_{\theta JA}$	60.0							°C/W
Operating Junction Temperature Range	$T_j$	-55 ~ +150							°C
Storage Temperature Range	$T_{stg}$	-55 ~ +150							°C

**Ratings and Characteristic Curves**

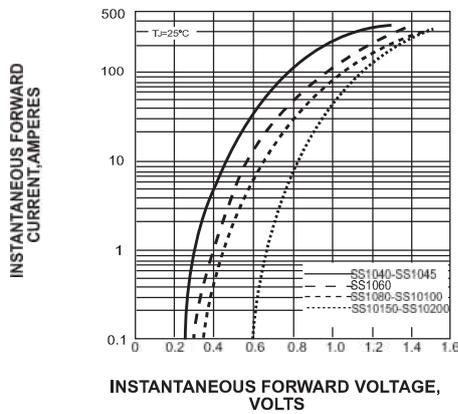
**FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT**



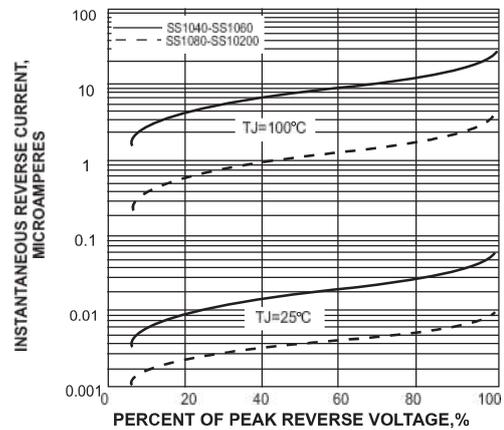
**FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG**



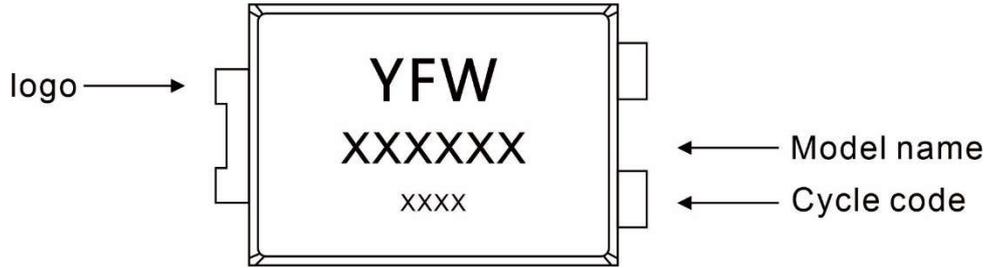
**FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS**



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



Marking Diagram



Ordering information

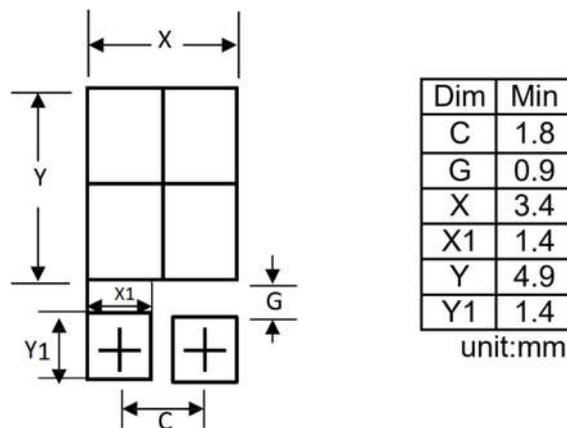
Package	Packing Description	Packing Quantity
TO-277	Tape/Reel, 13" reel	5000PCS/Reel 50000PCS/Carton

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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