

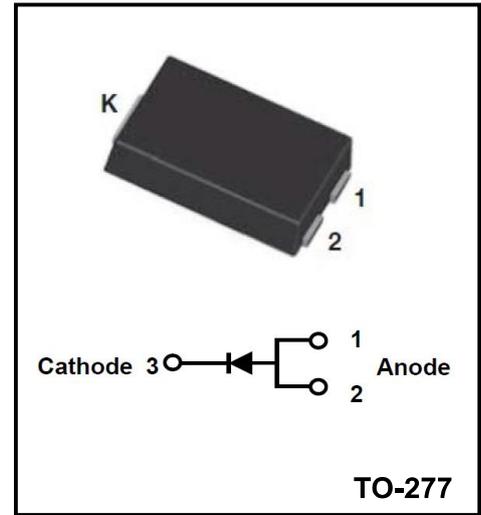
## Surface Mounted Schottky Barrier Rectifiers

Reverse Voltage - 20V - 200V

Forward Current - 15 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



### 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

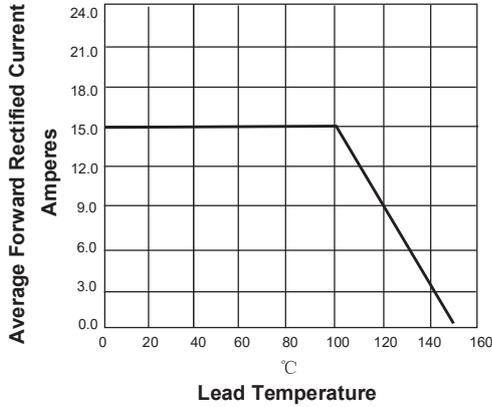
### Maximum Ratings And Electrical Characteristics

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

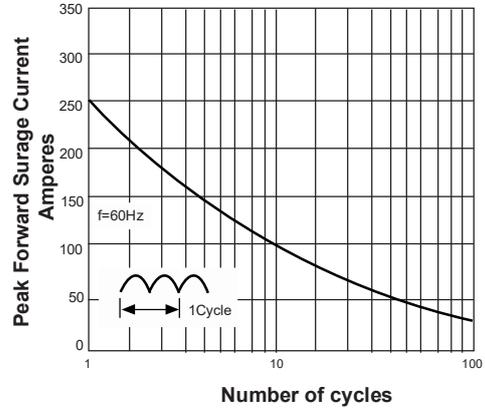
Parameter	Symbols	SS 1520SP	SS 1540SP	SS 1550SP	SS 1560SP	SS 1580SP	SS 15100SP	SS 15150SP	SS 15200SP	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	40	50	60	80	100	150	200	V
Maximum RMS voltage	$V_{RMS}$	14	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	20	40	50	60	80	100	150	200	V
Maximum average forward rectified current at $T_L=100^\circ\text{C}$	$I_{(AV)}$	15.0								A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	250								A
Maximum instantaneous forward voltage at 15.0A	$V_F$	0.55		0.70		0.85		0.95		V
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$	$I_R$	0.5 50				0.05 10				mA
Typical thermal resistance	$R_{qJA}$	60.0								°C/W
Operating junction temperature range	$T_J$	-55 to +150								°C
Storage Temperature Range	$T_{STG}$	-55 to +150								°C

**Ratings And Characteristic Curves**

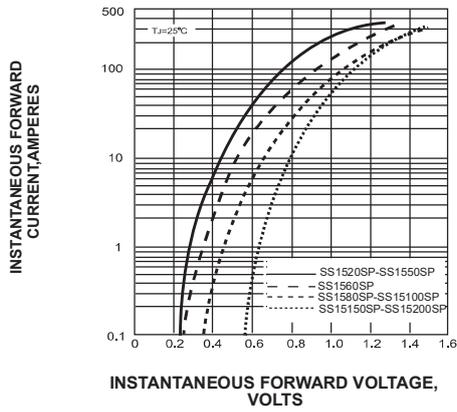
**FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT**



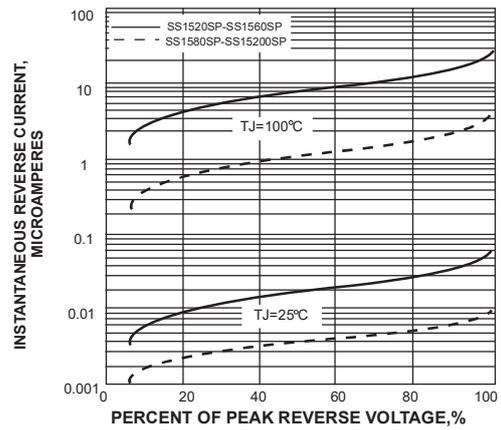
**FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG**



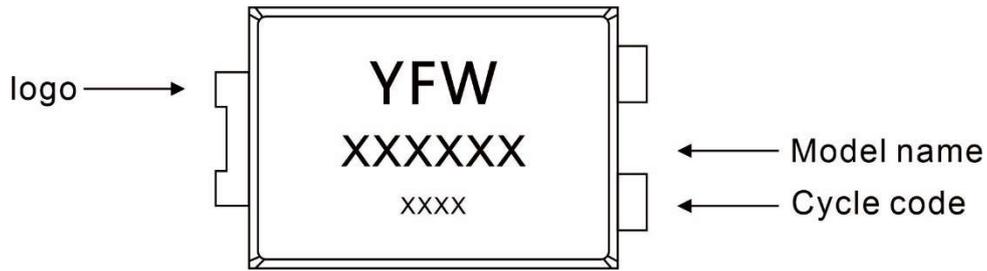
**FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS**



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



**Marking Diagram**

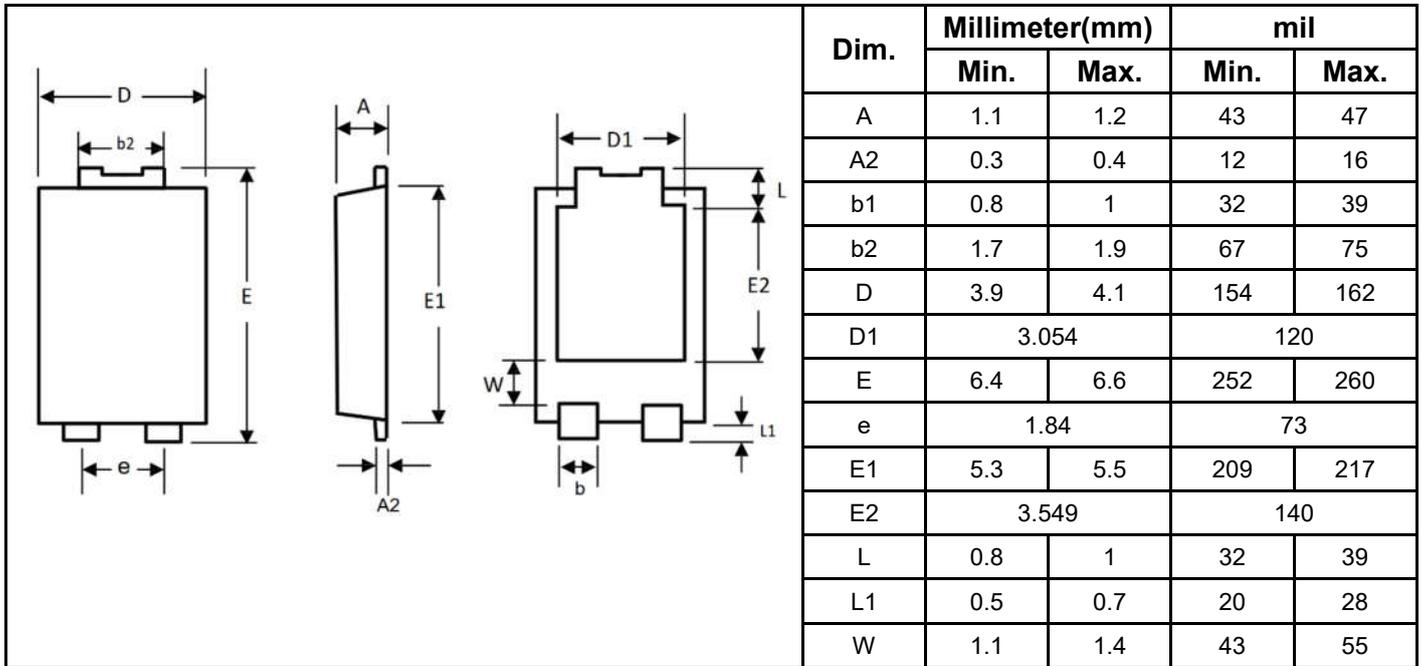


**Ordering information**

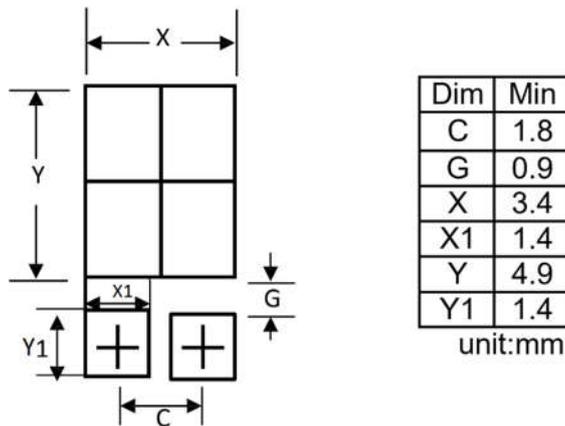
Package	Packing Description	Packing Quantity
TO-277	Tape/Reel, 13"reel	5000PCS/Reel 50000PCS/Carton

**Package Dimensions**

**TO-277**



**The recommended mounting pad size**



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