

**5.0Amp Surface Mounted Schottky Barrier Rectifiers**

**Reverse Voltage - 40 to 200V**

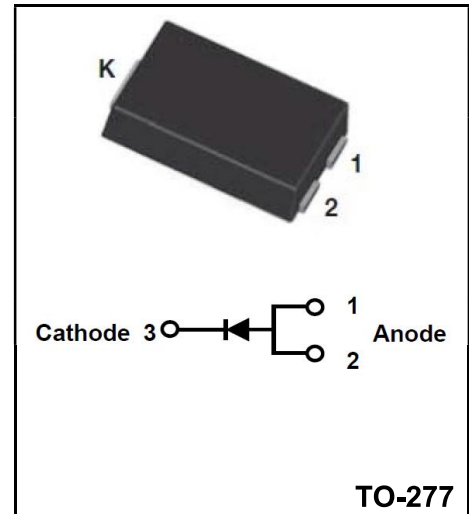
**Forward Current - 5 A**

**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  
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 : 0.008 ounce, 0.225 grams



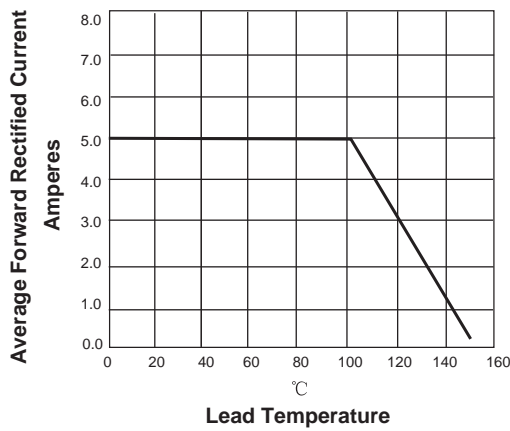
**Maximum Ratings And Electrical Characteristics**

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%.

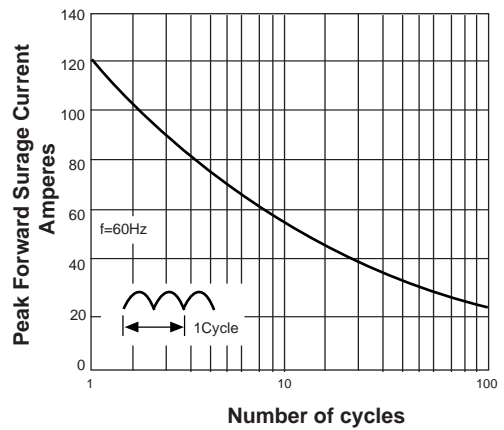
Parameter	Symbols	5L40SP	5L45SP	5L60SP	5L80SP	5L100SP	5L150SP	5L200SP	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	40	45	60	80	100	150	200	V
Maximum RMS voltage	$V_{RMS}$	28	31.5	42	56	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	40	45	60	80	100	150	200	V
Maximum average forward rectified current at $T_L=100\text{ }^\circ\text{C}$	$I_{(AV)}$	5.0							A
Peak forward surge current,8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	120.0							A
Maximum instantaneous forward voltage at 5.0A	$V_F$	0.48	0.55	0.70	0.85				V
Maximum DC reverse current at rated DC blocking voltage $T_A=25\text{ }^\circ\text{C}$ $T_A=125\text{ }^\circ\text{C}$	$I_R$	0.5 50			0.2 20			mA	
Operating Temperature Range	$T_J$	-55 to +150							°C
Typical thermal resistance	$T_{STG}$	-55 to +150							°C
Typical thermal resistance	$R_{\theta JA}$	60.0							°C/W

**Ratings And Characteristic Curves**

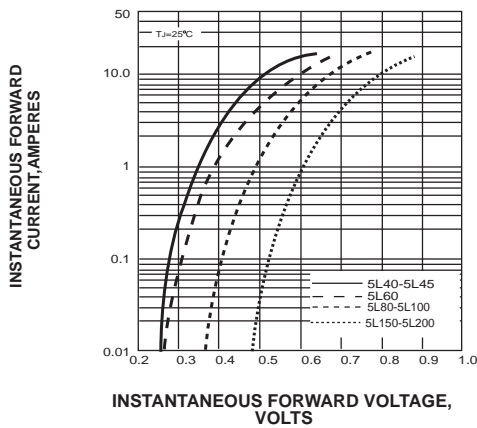
**FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT**



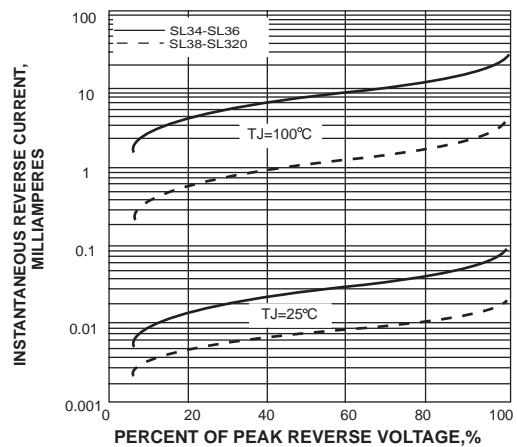
**FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG**



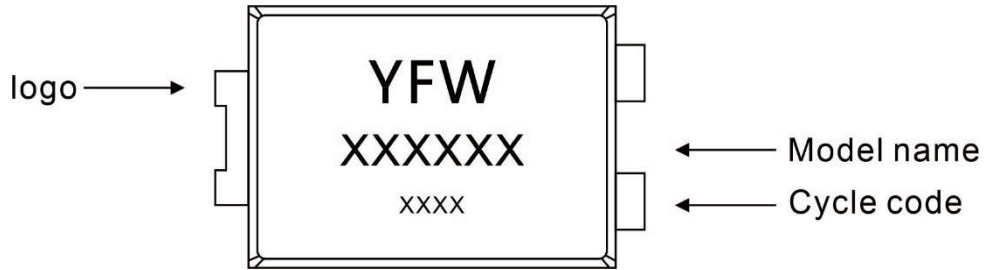
**FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS**



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



**Marking Diagram**



**Ordering information**

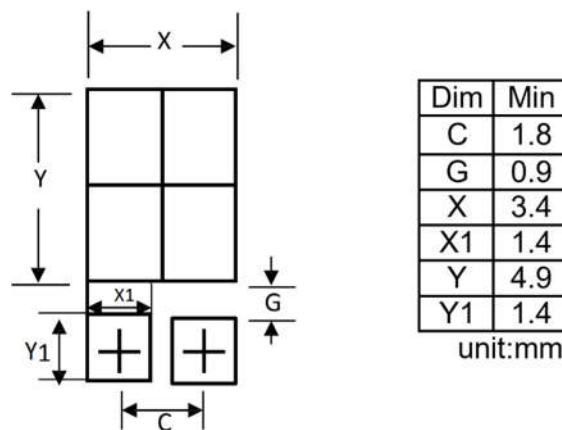
Package	Packing Description	Packing Quantity
TO-277	Tape/Reel, 13"reel	5000PCS/Reel 50000PCS/Carton

**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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