

8.0Amp Standard Surface Mounted Rectifiers

Reverse Voltage – 50-1000V

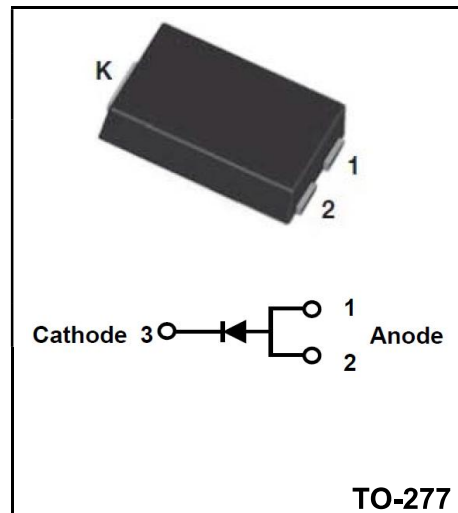
Forward Current - 8.0 A

FEATURES

- ♦The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ♦Idea for printed circuit board
- ♦Glass passivated Junction chip
- ♦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 : 0.003 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	S8ASP	S8BSP	S8DSP	S8GSP	S8JSP	S8KSP	S8MSP	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at $T_L=100\text{ }^{\circ}\text{C}$	$I_{(AV)}$	8.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	175							A
Maximum instantaneous forward voltage at 8.0A	V_F	1.1							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	5.0 500							UA
Typical junction capacitance (Note1)	C_J	58							pF
Typical thermal resistance	$R_{\theta JA}$	60.0							$^{\circ}\text{C/W}$
Operating junction and storage temperature range	T_J, T_{STG}	-55 ~ +150							$^{\circ}\text{C}$

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

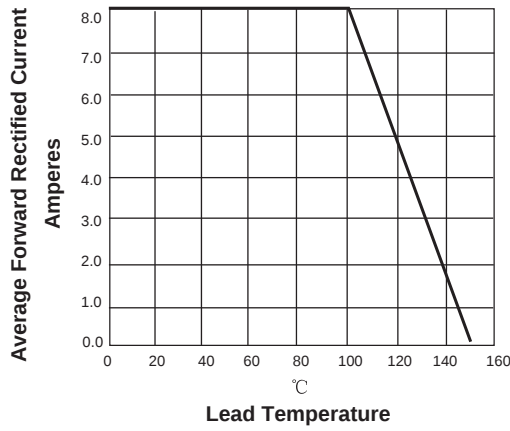


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

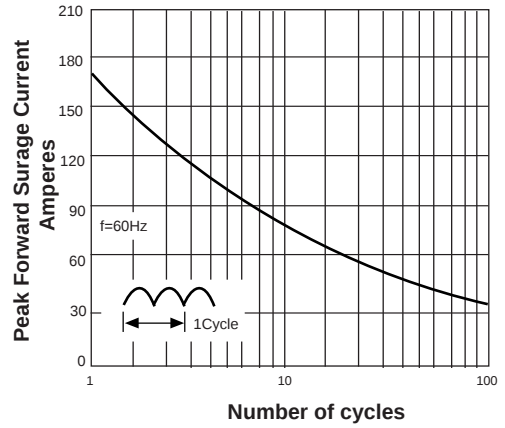


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

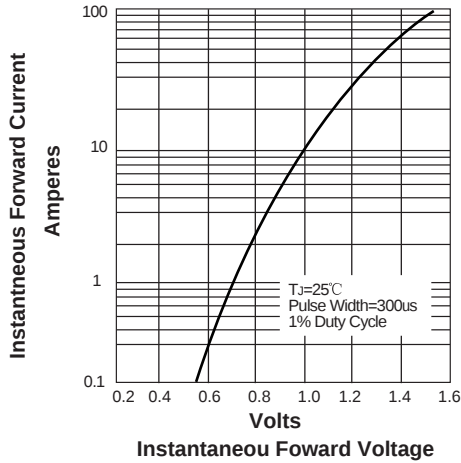
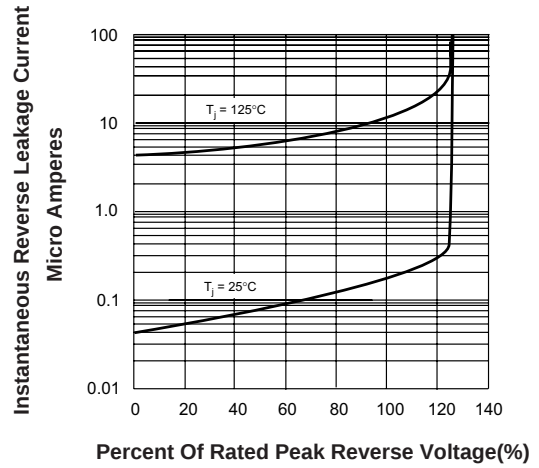
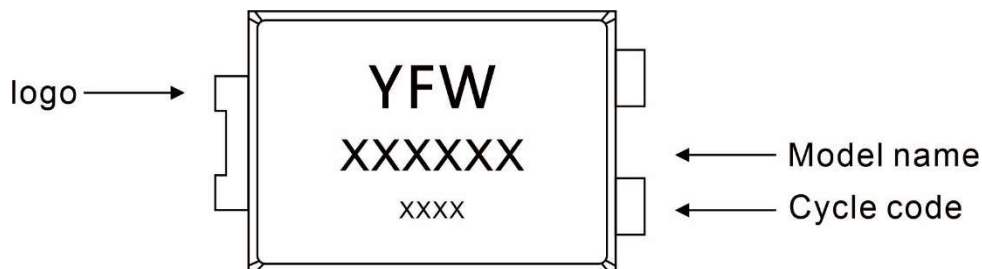


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram



Ordering information

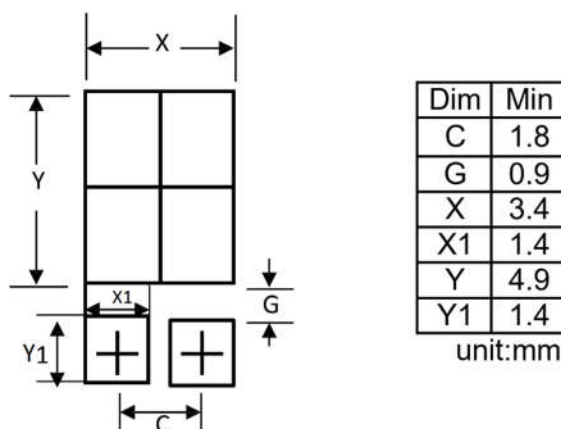
Package	Packing Description	Packing Quantity
TO-277	Tape/Reel, 13"reel	5000PCS/Reel 50000PCS/Carton

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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