

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 40 to 200 V

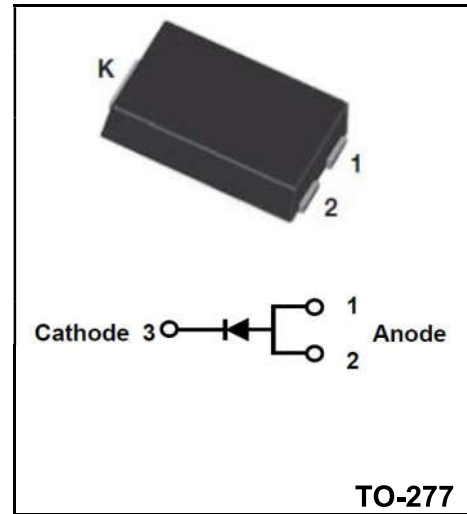
Forward Current - 20 A

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



Absolute 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	SS2040SP	SS2045SP	SS2060SP	SS2080SP	SS20100SP	SS20150SP	SS20200SP	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°C	I _(AV)	20.0							A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load	I _{FSM}	250.0							A
Maximum Instantaneous Forward Voltage at 20 A	V _F	0.55	0.70	0.85		0.95		V	
Maximum Instantaneous Reverse Current TA = 25°C at Rated DC Reverse Voltage TA = 125°C	I _R	100 50			10 20			u A mA	
Typical Thermal Resistance	R _{θJA}	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

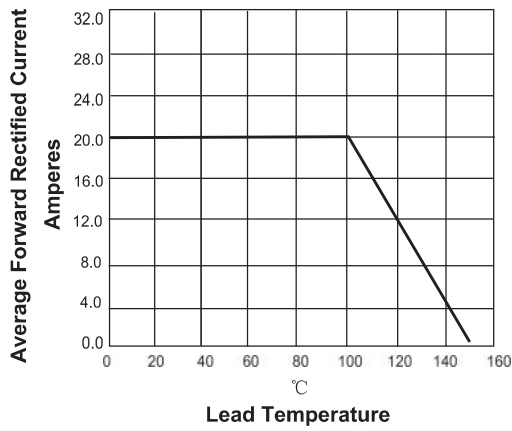


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

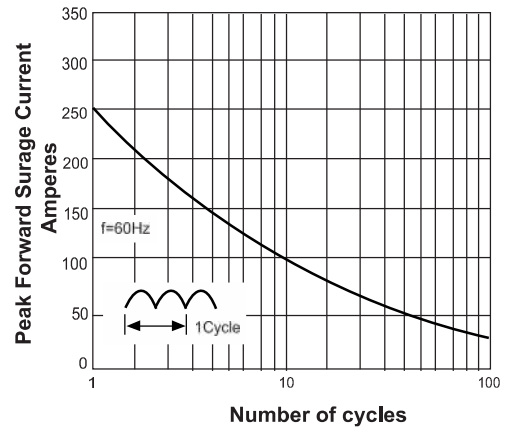


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

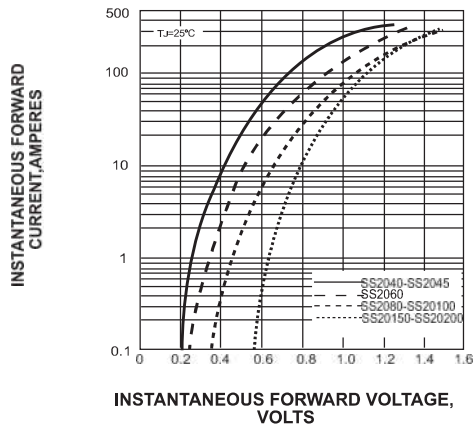
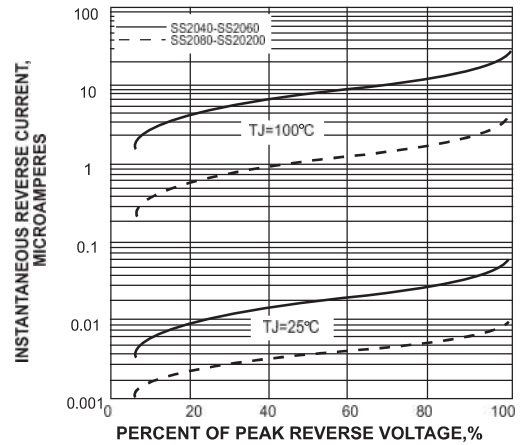
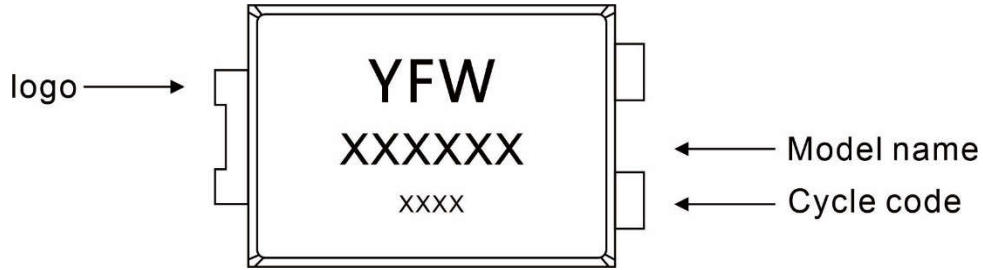


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Marking Diagram



Ordering information

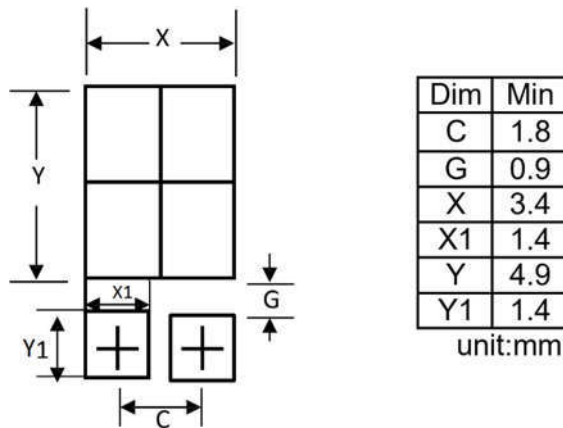
Package	Packing Description	Packing Quantity
TO-277	Tape/Reel, 13" reel	5000PCS/Reel 50000PCS/Carton

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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