

SS1040SP THRU SS10200SP TO-277

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 40 to 200 V

Forward Current - 10 A

FEATURES

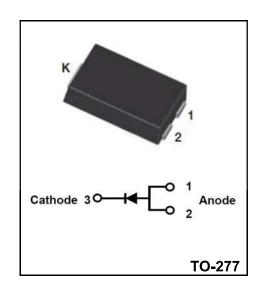
- ♦The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ♦For surface mounted applications
- ♦Built-in strain relief,ideal for automated placement
- **♦**Low reverse leakage
- High forward surge current capability
- ♦High temperature soldering guaranteed 250 C/10 seconds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



♦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 $^{\circ}$ ambient temperature unless otherwise specified. Single phase, half wave,

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			А				
Peak Forward Surge Current, 8.3ms Single Half Sinewave Superimposed On Rated Load (JEDEC method)	I _{FSM}	175.0			А				
Maximum Instantaneous Forward Voltage at 10 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	0.5 50			0.05 10			mA	
Typical Thermal Resistance	R _{θJA}	60.0			°C/W				
Operating Junction Temperature Range	Тј				-55 ~ +1	50			°c
Storage Temperature Range	T _{stg}				-55 ~ +1	50			°C



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Ratings and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

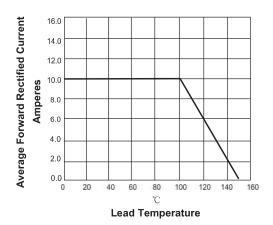


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

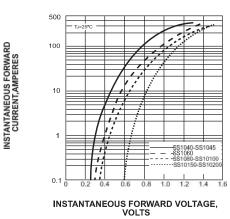


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

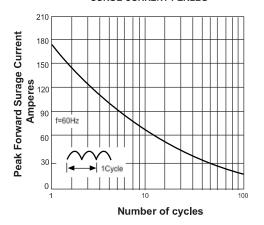
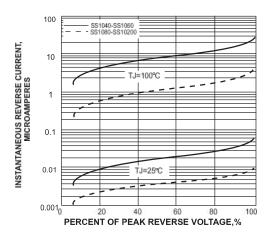
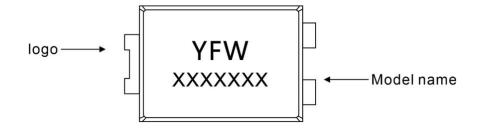


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS





Marking Diagram

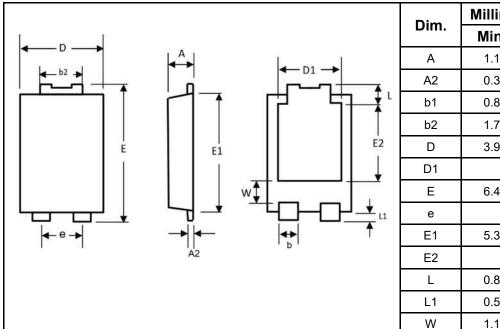


Ordering information

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

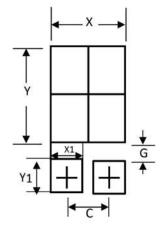
Package Dimensions

TO-277



Millimeter(mm) mil					
Dim.	Willime	ter(mm)	mil		
Dilli.	Min.	Max.	Min.	Max.	
Α	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	
е	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



Dim	Min
С	1.8
G	0.9
Х	3.4
X1	1.4
Υ	4.9
Y1	1.4
uni	t:mm



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