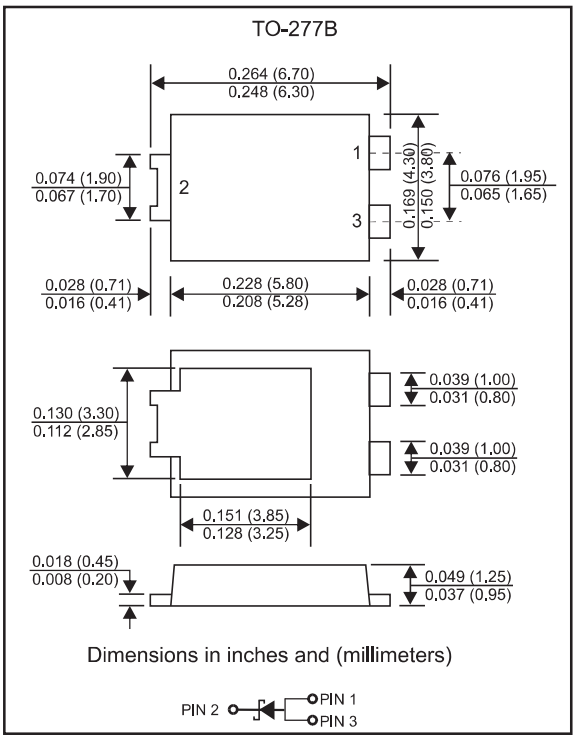
SS1020-T-Q1 THRU SS10200-T-Q1

10.0A Surface Mount Schottky Barrier Rectifiers - 20V-200V

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction,majority carrier conduction
- Low power loss,high efficiency
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals
- Compliant to RoHS Directive 2011/65/EU
- Compliant to Halogen-free.
- Suffix "-Q1" for AEC-Q101.

Package outline



Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : TO-277B , molded Plastic
- Terminals:Solderable per MIL-STD-750,Method 2026

Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.2	I_O			10.0	A
Forward surge current	8.3ms single half sine-wave (JEDEC methode)	I_{FSM}			175	A
Reverse current	V_R = V_{RRM} T_A = 25°C	I_R			0.5	mA
	V_R = V_{RRM} T_A = 100°C				50	
Thermal resistance	Junction to ambient NOTE 1	$R_{\theta JC}$		60		°C/W
Storage temperature		T_{STG}	-55		+150	°C

Note: 1.P.C.B. mounted with 0.6x0.6"(16x16mm) copper pad areas

SYMBOLS	V_{RRM} *1 (V)	V_{RMS} *2 (V)	V_R *3 (V)	V_F *4 (V)	Operating temperature T_J, (°C)
SS1020-T-Q1	20	14	20	0.55	-55 to +150
SS1040-T-Q1	40	28	40		
SS1060-T-Q1	60	42	60	0.70	
SS1080-T-Q1	80	56	80	0.85	
SS10100-T-Q1	100	70	100		
SS10150-T-Q1	150	105	150	0.95	
SS10200-T-Q1	200	140	200		

*1 Repetitive peak reverse voltage

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage@I_F=10.0A

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Rating and characteristic curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

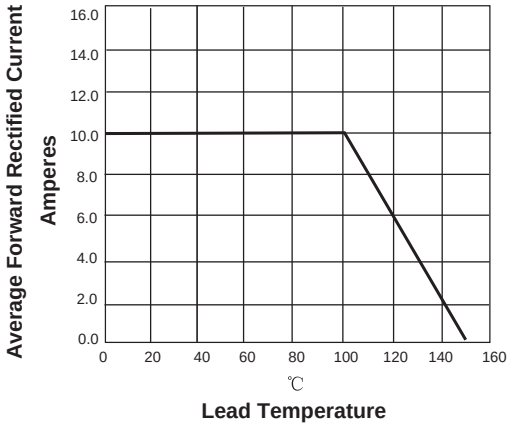


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

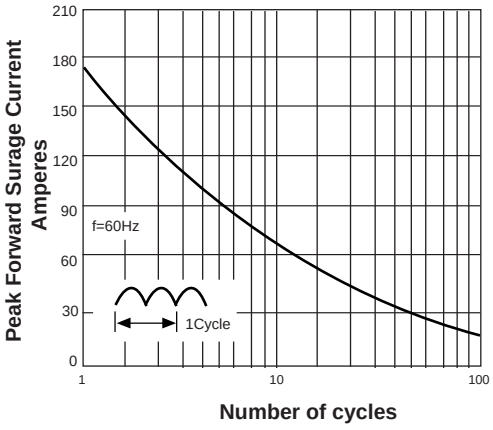


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

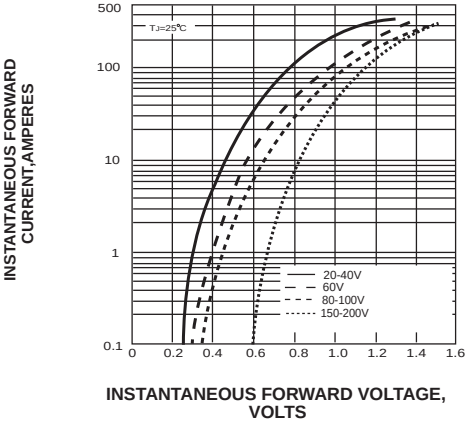
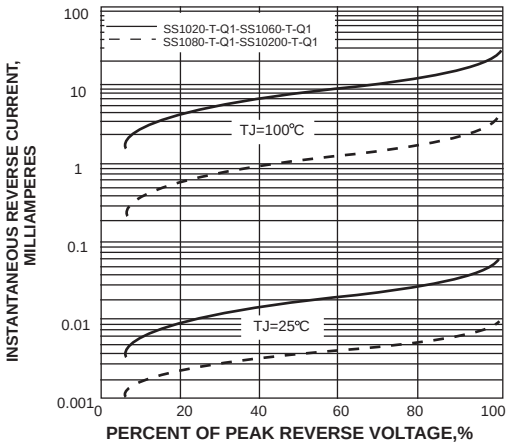


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



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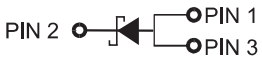
Pinning information

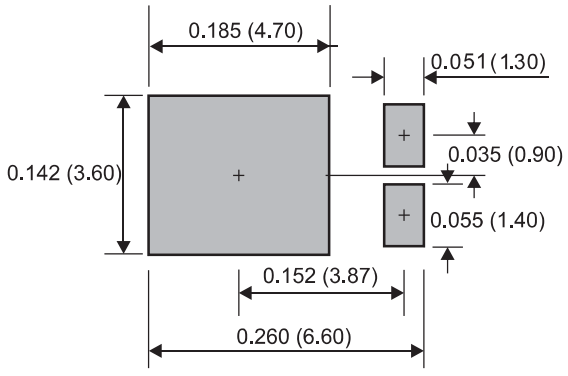
Pin	Simplified outline	Symbol
Pin2 cathode Pin1 anode Pin3 anode		

Marking

Type number	Marking code
SS1020-T-Q1	SS1020
SS1040-T-Q1	SS1040
SS1060-T-Q1	SS1060
SS1080-T-Q1	SS1080
SS10100-T-Q1	SS10100
SS10150-T-Q1	SS10150
SS10200-T-Q1	SS10200

Suggested solder pad layout

TO-277B



Dimensions in inches and (millimeters)