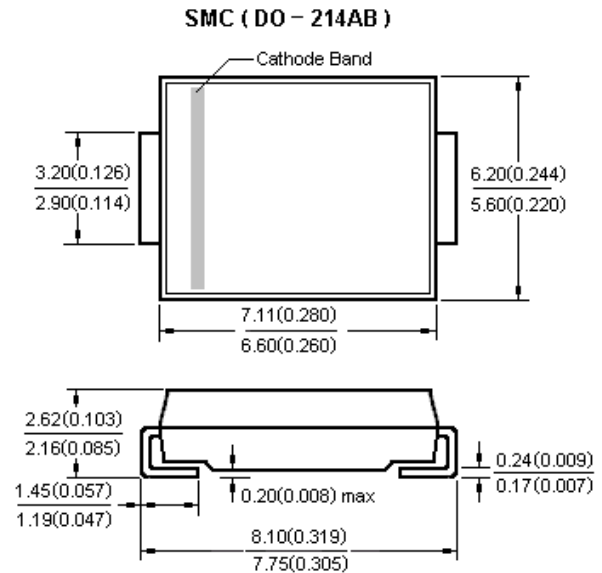


**SS510C****Surface Mount Schottky Rectifiers****Features**

Plastic package has Underwriters Laboratory
Flammability Classification 94V-0
For surface mounted applications
Low profile package
Built-in strain relief
Metal silicon junction, majority carrier conduction
High surge capability
High current capability, low forward voltage drop
Low power loss, high efficiency
For use in low voltage high frequency inverters, free
wheeling and polarity protection applications
Guarding for overvoltage protection
High temperature soldering guaranteed: 250°C/10
seconds at terminals

Mechanical Data

Case: JEDEC SMC, molded plastic
Polarity: Color band denotes cathode end
Weight: 0.007 ounces, 0.21 gram



Dimensions in millimeters and (inches)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

Items		SS52C	SS54C	SS56C	SS58C	SS510C	SS5150C	SS5200	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	20	40	60	80	100	150	200	V
Maximum RMS voltage	V _{RWS}	14	28	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	40	60	80	100	150	200	V
Maximum average forw ord rectified current at T _L (SEE FIG.1) (NOTE 2)	I _(AV)	5.0							A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load(JEDEC Method)	I _{FSM}	150							A
Maximum instantaneous forw ard voltage at 5.0A(NOTE 1)	V _F	0.55		0.70	0.85		0.95		V
Maximum DC reverse current @T _A =25°C at rated DC blockjng voltage(NOTE1) @T _A =100°C	I _R	0.5							mA
		20				10			
Typical thermal resitance (NOTE2)	R _{θJA}	55							°C/W
	R _{θJL}	17							
Operating junction temperature range	T _J	-55--- +150							°C
Storage temperature range	T _{STG}	-55--- +150							°C

NOTE: 1. Pulse test: 300 μs pulse width, 1% duty cycle2. P.C.B. mounted with 0.55"X0.55" (14.0X14.0mm²) copper pad areas



SS510C

Surface Mount Schottky Rectifiers

Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

FIG.1 – FORWARD DERATING CURVE

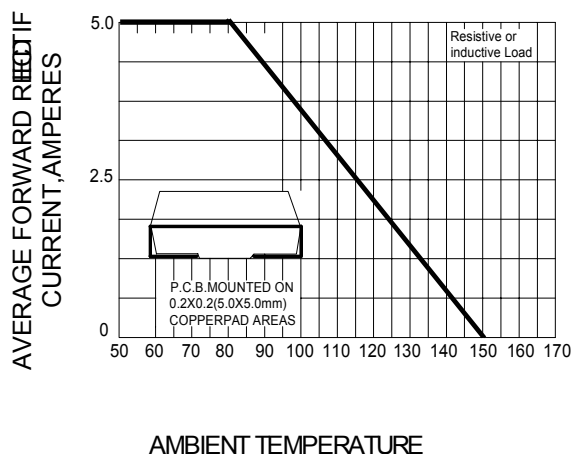


FIG.2– PEAK FORWARD SURGE CURRENT

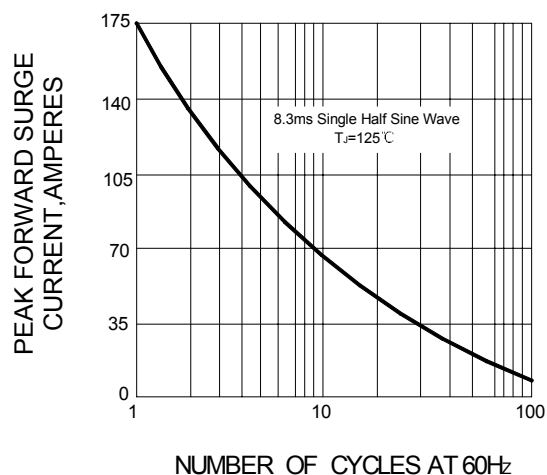


FIG.3 – TYPICAL FORWARD CHARACTERISTICS

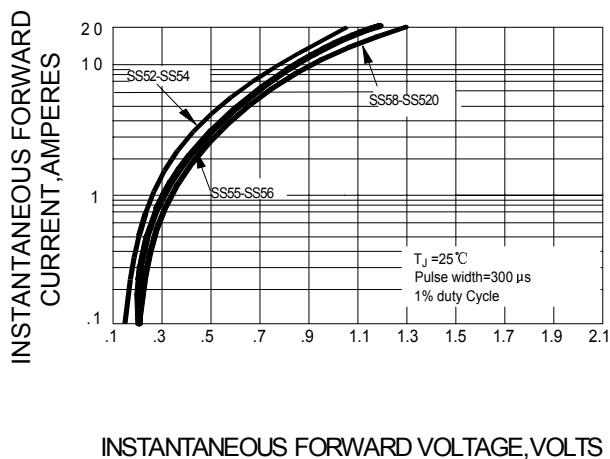


FIG.4 – TYPICAL REVERSE CHARACTERISTICS

