

SS515

5.0AMPS. SCHOTTKY BARRIER RECTIFIERS

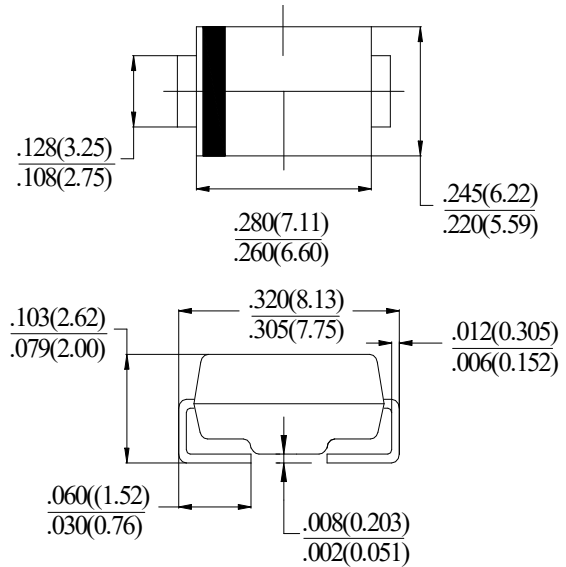
FEATURE

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed:
260°C/10 seconds at terminals.
- . For surface mounted application.
- . Easy pick and place.

MECHANICAL DATA

- . Case: Molded plastic
- . Epoxy: UL94V-0 rate flame retardant
- . Lead: MIL-STD- 202E, Method 208 guaranteed
- . Polarity:Color band denotes cathode end
- . Mounting position: Any

SMC (DO-214AB)



Dimensions in inches and (millimeters)

Single phase, half wave, 60Hz,resistive or inductive load.

For capacitive load, derate current by 20%

MAXIMUM RATINGS (T_C=25°C unless otherwise noted)

Parameter	Symbol	SS515	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	150	V
Maximum RMS Voltage	V_{RMS}	105	V
Maximum DC blocking Voltage	V_{DC}	150	V
Average Forward Rectified Current at T _L ≤90°C	$I_{F(AV)}$	5	A
Non-repetitive forward surge current,8.3mS half sine-wave	I_{FSM}	120	A
Typical Junction Capacitance (Note 1)	C_J	112	pF
Operation Junction Temperature and Storage Temperature	T_J, T_{STG}	-55 to + 150	°C

ELECTRICAL CHARACTERISTICS (T_C=25°C unless otherwise noted)

Parameter	Symbol	Min	Typ	Max	Units
Forward Voltage at I _F =5A @ T _J =25°C @ T _J =125°C	V_F	-----	0.82 0.76	0.95 -----	V
Reverse current at rated DC blocking voltage @T _J =25°C @T _J =125°C	I_R	-----	-----	0.1 20.0	mA

THERMAL CHARACTERISTICS(T_C=25°C unless otherwise noted)

Parameter	Symbol	SS515	Units
Typical Thermal Resistance (Note2)	$R_{(JC)}$	20	°C/W

Note:1.Conditions:I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

2.Measured on P.C.Board with 15.0mm*15.0mm*1.6mm Copper Pad Areas

RATING AND CHARACTERISTIC CURVES (SS515)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

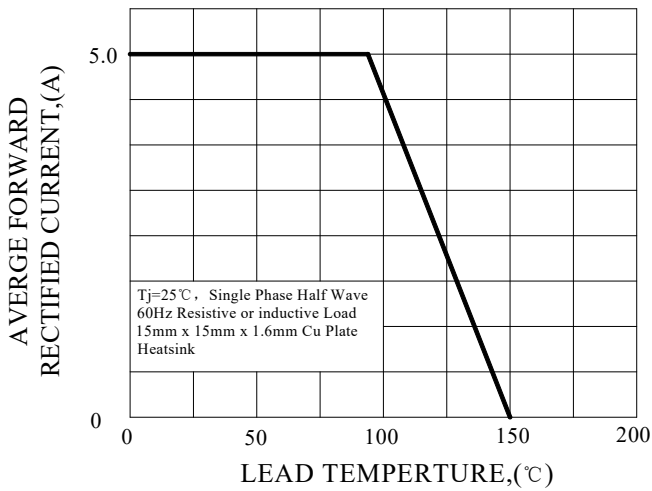


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

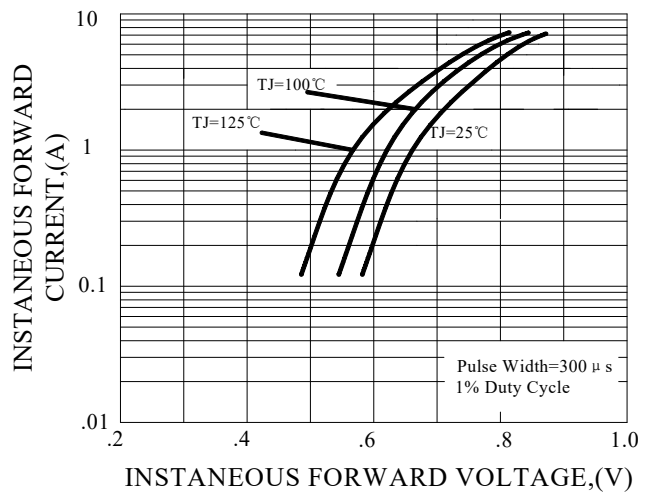


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

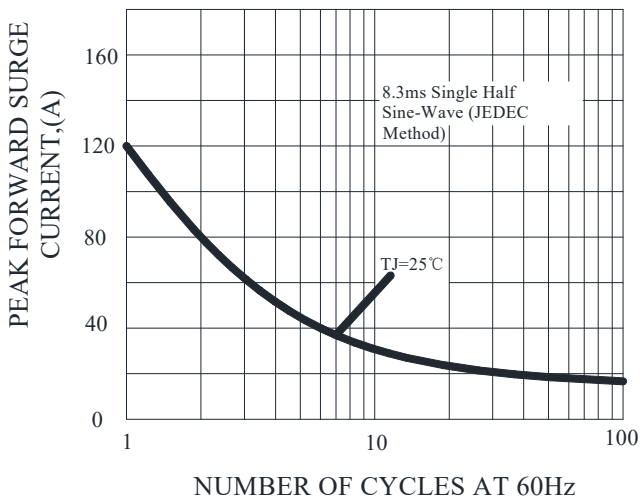


FIG.4-TYPICAL REVERSE CHARACTERISTICS

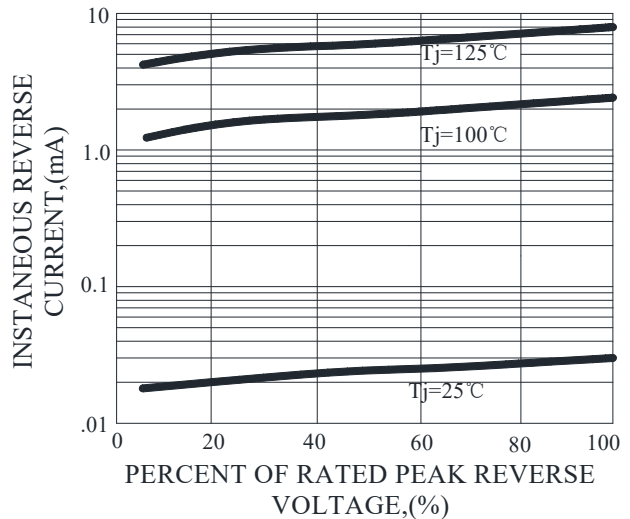
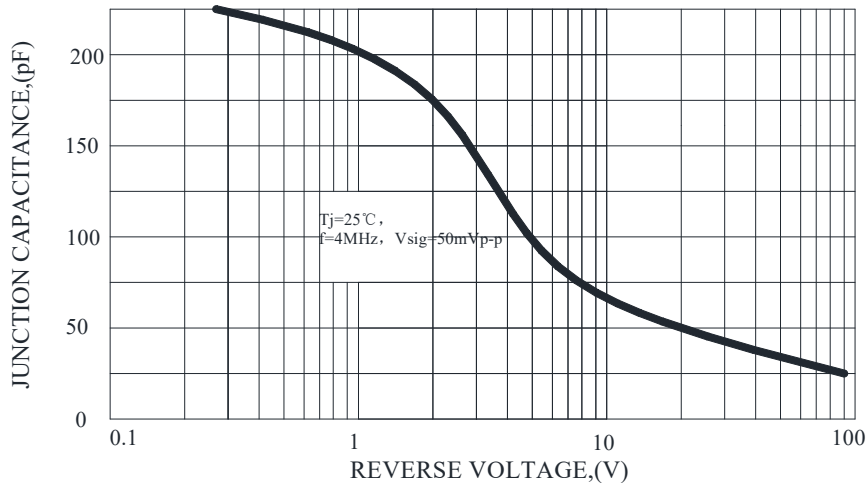


FIG.5-TYPICAL JUNCTION CAPAOTANCE



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