



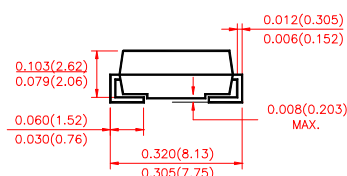
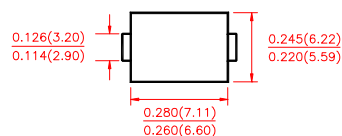
FEATURES

- Low profile surface mount package
- Built in strain relief
- High switching speed
- Low voltage drop, high efficiency
- For use in low voltage high frequency inverters, Free willing ,and polarity protection applications
- Guardring for over voltage protection

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead :Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.007 ounce, 0.25 gram

DO-214AB(SMC)



Dimensions in inches and (millimeters)

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 derate current by 20%.

	SYMBOLS	SS5150	SS5200	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	150	200	Volts
Maximum RMS Voltage	V _{RMS}	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	150	200	Volts
Maximum Average Forward Rectified Current at T _L see figure 1 T _L =105℃	I _(AV)	5		Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	120		Amps
Maximum Instantaneous Forward Voltage @ 3.0A(Note1)	V _F	0.85		Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	T _A = 25℃	I _R	0.3	mA
	T _A = 100℃		10	
Typical Thermal Resistance (Note 2)	R _{θJA}	55		℃/W
	R _{θJL}	12		
Operating Junction Temperature	T _J	150		℃
Storage Temperature Range	T _{STG}	(-55 to +150)		℃

Notes:

1. Pulse test:300 μ s pulse width,1% duty cycle
2. P.C.B.with 0.3×0.3" (8.0 × 8.0mm) copper pad areas.



FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

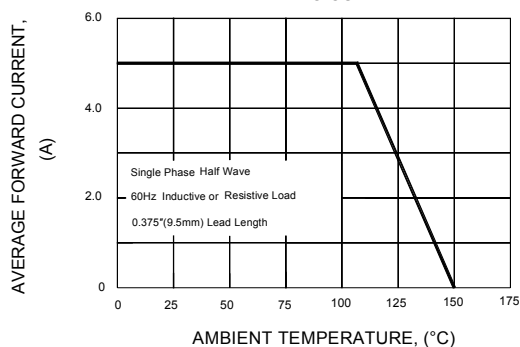


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

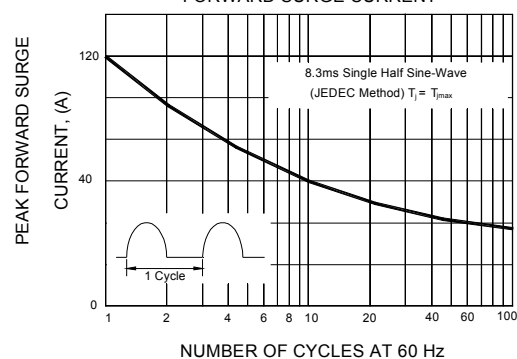


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

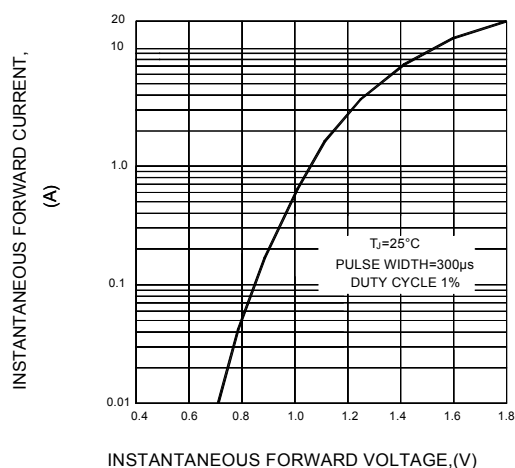


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

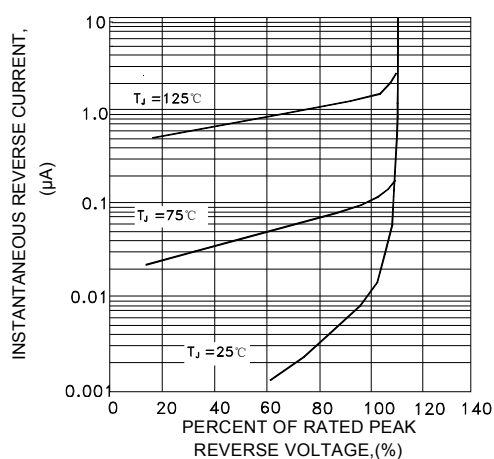


FIG.5-TYPICAL JUNCTION CAPACITANCE

