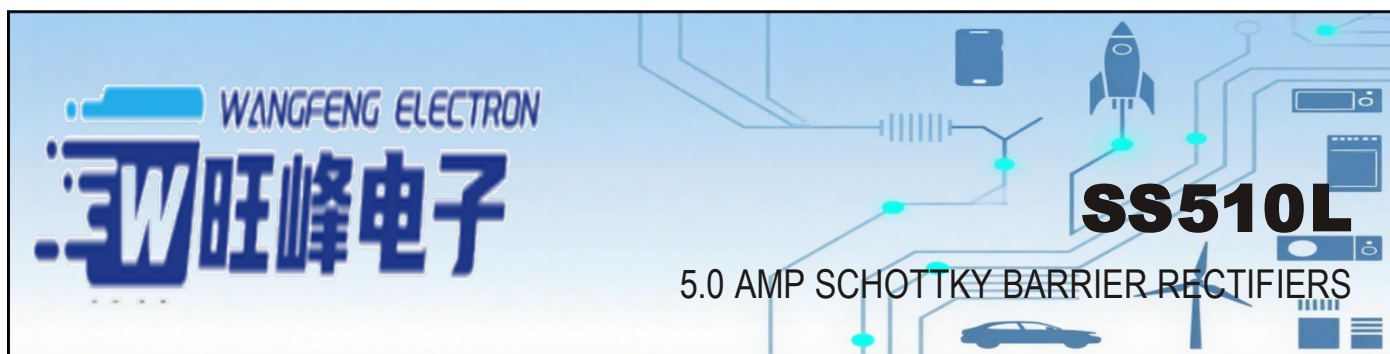




FEATURES * Ideal for surface mount applications * Easy pick and place * Built-in strain relief * Low forward voltage drop MECHANICAL DATA * Case: Molded plastic * Epoxy: UL 94V-0 rate flame retardant * Metallurgically bonded construction * Polarity: Color band denotes cathode end * Mounting position: Any * Weight: 0.093 grams	VOLTAGE RANGE 100 Volts CURRENT 5.0 Amperes DO-214AA(SMB) Dimensions in inches and (millimeters)
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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS		
Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.		
TYPE NUMBER	SS510L	UNITS
Maximum Recurrent Peak Reverse Voltage	100	V
Maximum RMS Voltage	70	V
Maximum DC Blocking Voltage	100	V
Maximum Average Forward Rectified Current		
See Fig. 1	5.0	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	120	A
Maximum Instantaneous Forward Voltage at 5.0A	0.67	V
Maximum DC Reverse Current Ta=25°C	0.1	mA
at Rated DC Blocking Voltage Ta=125°C	20	mA
Typical Junction Capacitance (Note1)	370	pF
Typical Thermal Resistance R JA (Note 2)	70	°C/W
Operating Temperature Range Tj	-55 → +125	°C
Storage Temperature Range Tstg	-55 → +150	°C
NOTES:		
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.		
2. Unit mounted on PC board with 5.0mm× 5.0 mm (0.013 mm thick) copper pads as heat sink		

RATING AND VCHARACTERISTIC CURVES(SS510L)

FIG.1-FORWARD CURRENT DERATING CURVE

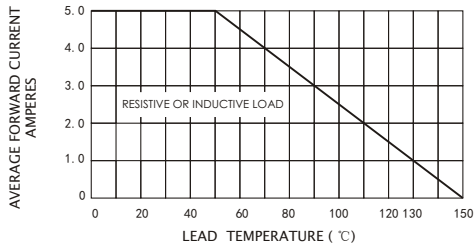


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

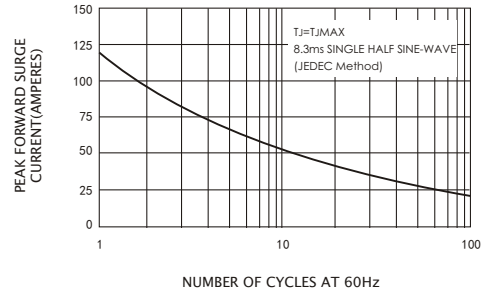


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

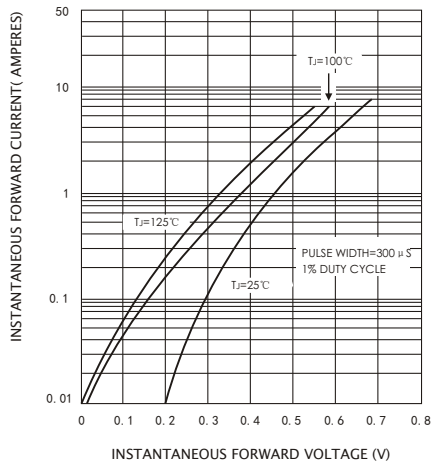


FIG.4-TYPICAL REVERSE CHARACTERISTICS

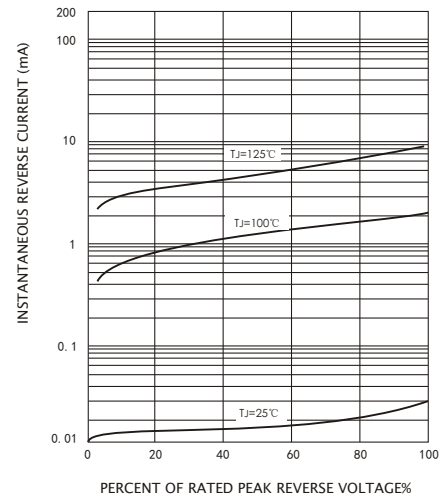


FIG.5-TYPICAL JUNCTION CAPACITANCE

