

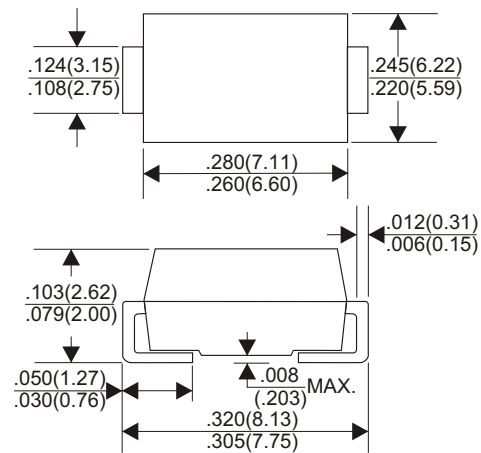
FEATURES

- * 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: 0.21 grams

DO-214AB(SMC)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

@Ta= +25°C, unless otherwise specified

TYPE NUMBER	B520C	B530C	B540C	B550C	B560C	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	V
Maximum RWS Voltag						
Maximum DC Blocking Voltage						
Maximum Average Forward Rectified Current						
At T _L =100°C	5.0					A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	150					A
Maximum Instantaneous Forward Voltage at 3.05	0.53 0.475(typ)		0.70 0.6(typ)			V
Maximum DC Reverse Current	0.2 (typ 0.015)					mA
at Rated DC Blocking Voltage	10					mA
Typical Junction Capacitance (Note1)	300					pF
Typical Thermal Resistance, Junction to Terminal (Note 2) R _{θJT}	10					°C/W
Typical Thermal Resistance, Junction to Ambient (Note 2) R _{θJA}	50					°C/W
Operating Temperature Range T _J	-65 — +150					°C
Storage Temperature Range T _{STG}	-65 — +150					°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance: Junction to ambient, unit mounted on PC board with 8.0 mr² (0.033 mm thick) copper pads as heat sink.

RATING AND CHARACTERISTIC CURVES (B520C THRU B560C)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

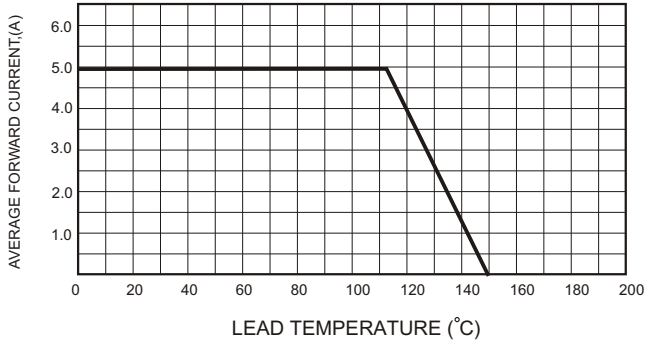


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

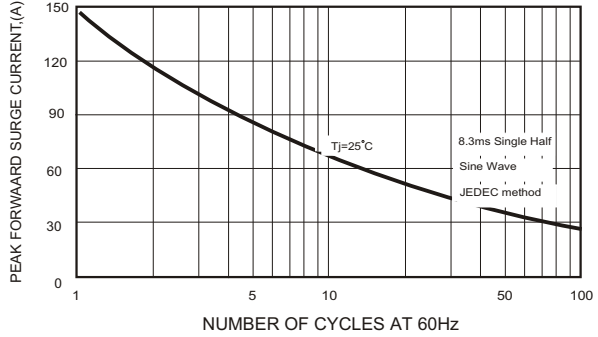


FIG.3-TYPICAL FORWARD CHARACTERISTICS

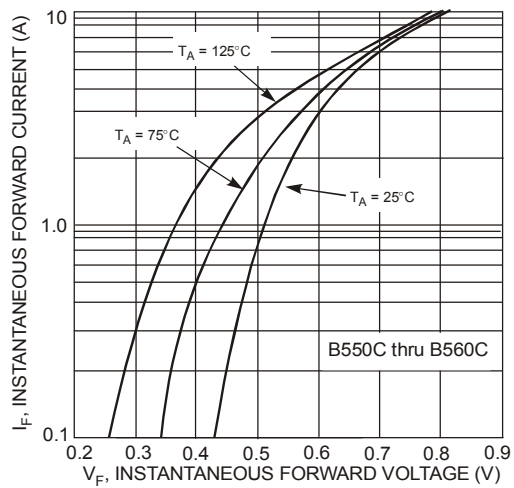
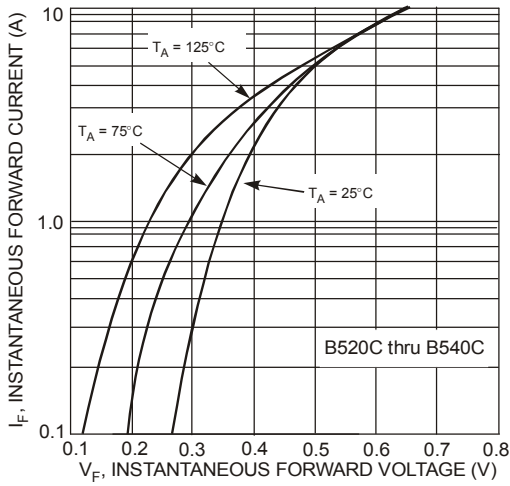


FIG.4-TYPICAL JUNCTION CAPACITANCE

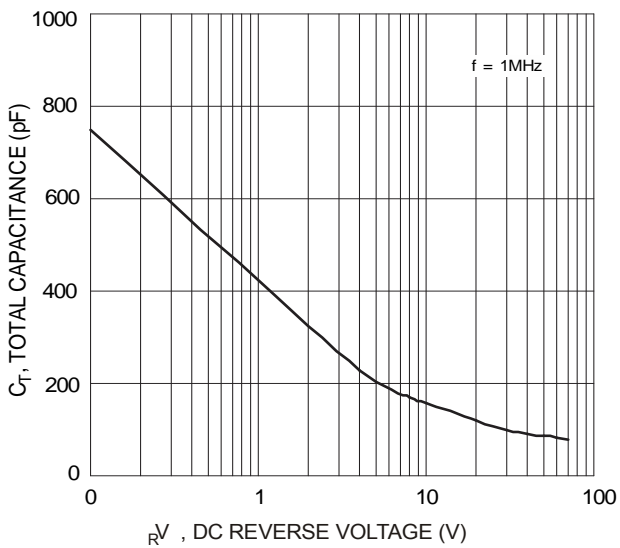
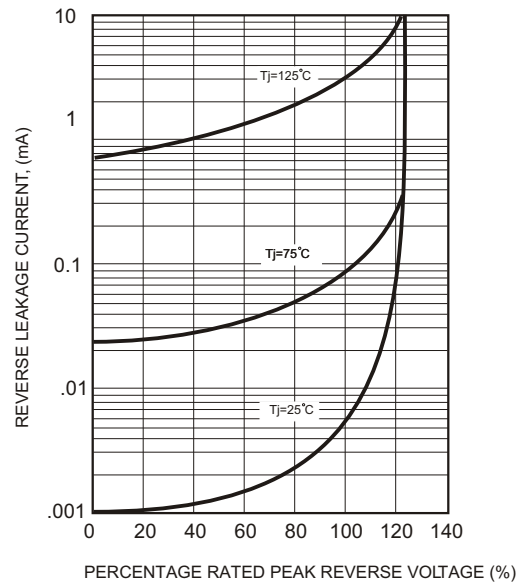


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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