

B320A THRU B360A

3.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

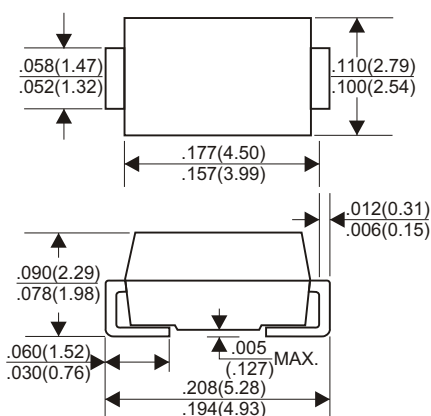
FEATURES

- * 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: 0.063 grams

DO-214AC(SMA)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

@Ta= +25°C, unless otherwise specified

TYPE NUMBER	B320A	B330A	B340A	B350A	B360A	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	3.0					A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	100					A
Maximum Instantaneous Forward Voltage at 3.0A	0.5 0.48(typ)			0.70 0.61(typ)		V
Maximum DC Reverse Current Ta=25°C	0.2 (typ 0.012)					mA
at Rated DC Blocking Voltage Ta=100°C	10					mA
Typical Junction Capacitance (Note1)	180					pF
Typical Thermal Resistance, Junction to Terminal (Note 2) R _{θJT}	25					°C/W
Typical Thermal Resistance, Junction to Ambient (Note 2) R _{θJA}	140					°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. Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.56"*0.73" copper pad.

RATING AND CHARACTERISTIC CURVES (B320A THRU B360A)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

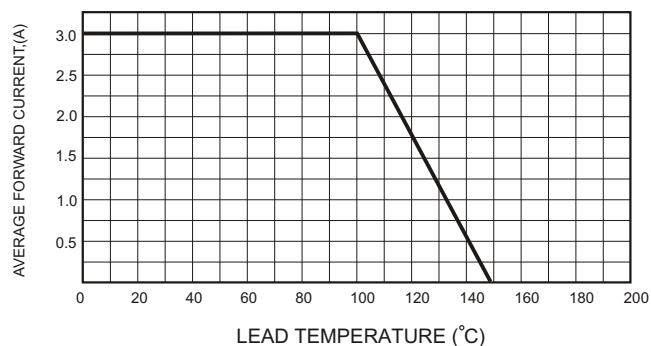


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

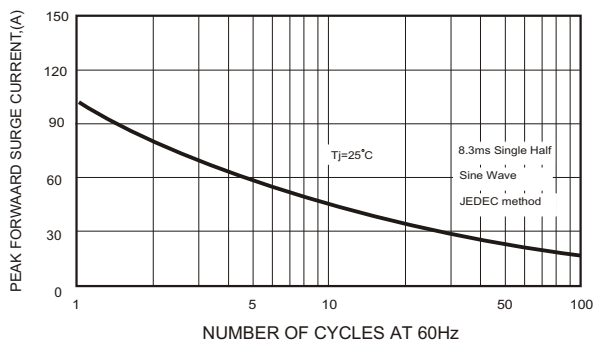


FIG3.-TYPICAL FORWARD CHARACTERISTICS

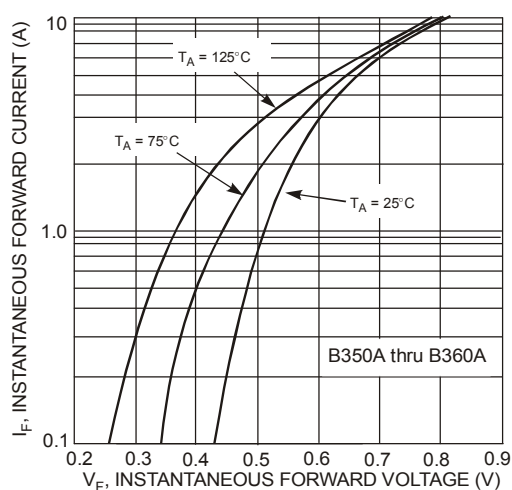
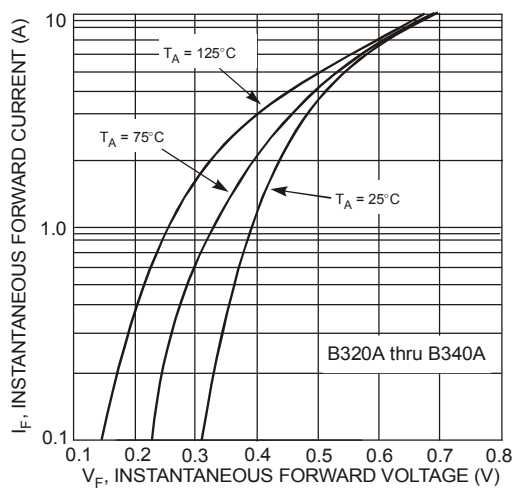


FIG.4-TYPICAL JUNCTION CAPACITANCE

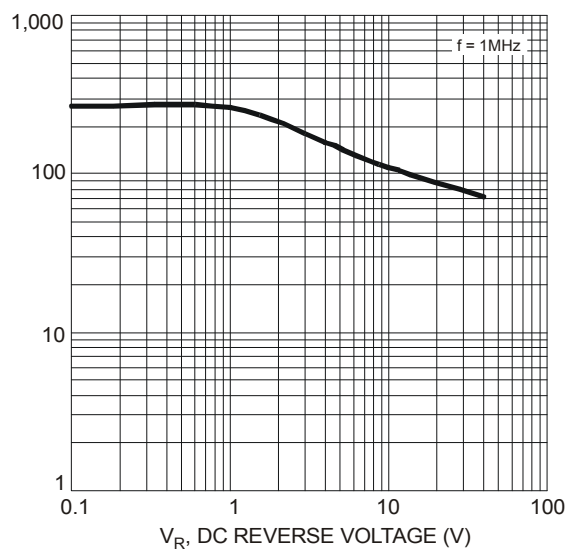


FIG5. - TYPICAL REVERSE CHARACTERISTICS

