



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

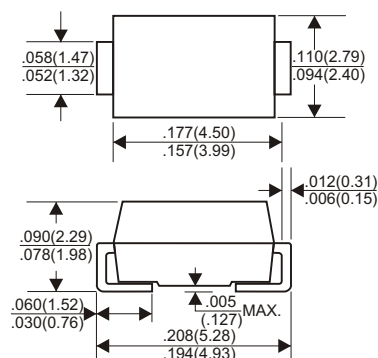
VOLTAGE RANGE

20 to 60 Volts

CURRENT

3.0 Amperes

DO-214AC(SMA)



Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Single phase, half wave, 60Hz, resistive or inductive load.
For capacitance load, derate current by 20%.

Characteristic	Symbol	B320A	B330A	B340A	B350A	B360A	Unit
Peak Repetitive Reverse Voltage	V _{RRM}						
Working Peak Reverse Voltage	V _{RWM}	20	30	40	50	60	V
DC Blocking Voltage	V _R						
Average Rectified Output Current @ T _T = +100°C	I _O	3.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I _{FSM}	80					A

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Maximum Total Power Dissipation - Steady State, T _A = +25°C (Note 7)	P _D	850	mW
Typical Thermal Resistance, Junction to Ambient (Note 7)	R _{θJA}	140	°C/W
Typical Thermal Resistance, Junction to Terminal (Note 8)	R _{θJT}	25	°C/W
Typical Thermal Resistance, Junction to Ambient (Note 8)	R _{θJA}	100	°C/W
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

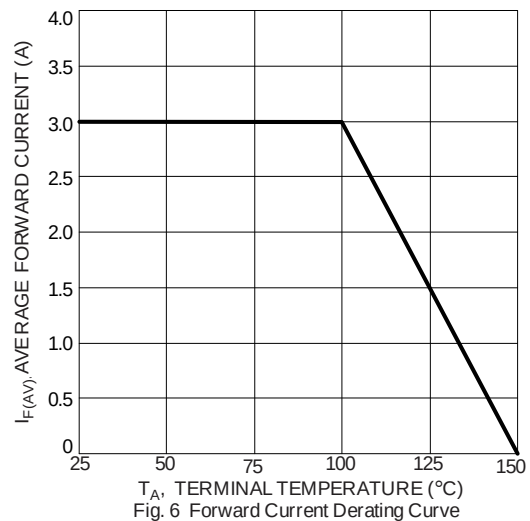
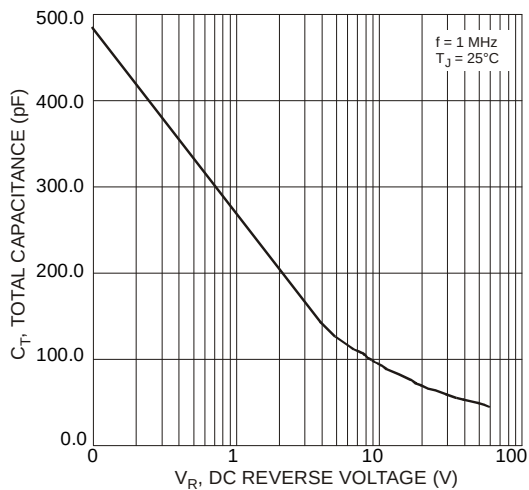
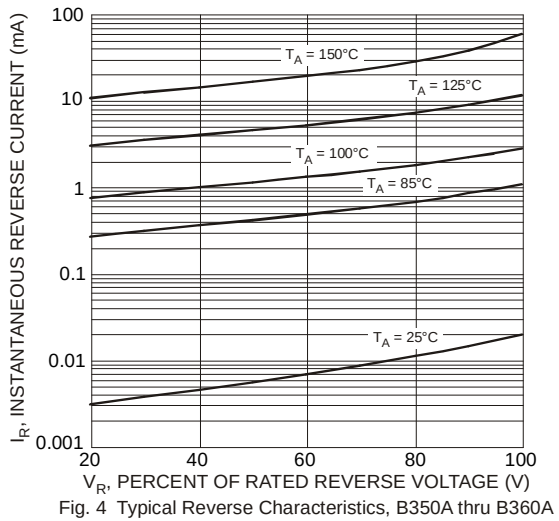
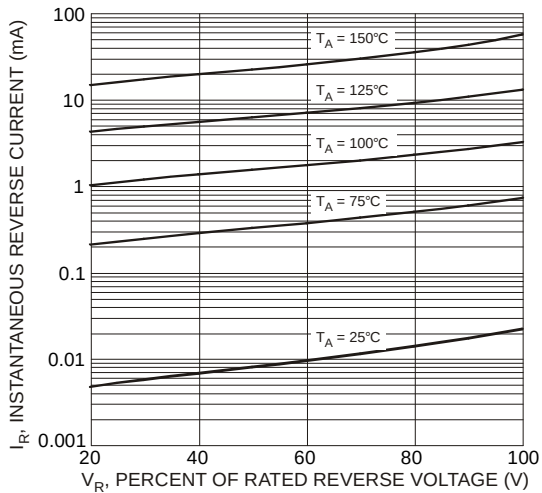
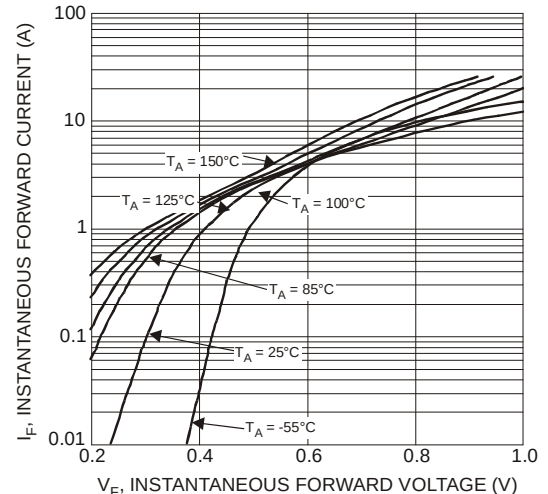
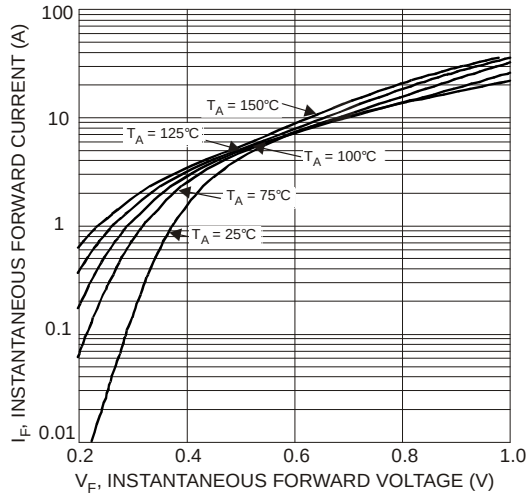
B320A THRU B360A

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic		Symbol	Min	Typ	Max	Unit	Test Condition
Forward Voltage Drop	B320A, B330A, B340A	V _F	—	—	0.50	V	I _F = 3.0A, T _A = +25°C
	B350A, B360A		—	—	0.70		
Leakage Current (Note 9)		I _R	—	—	0.5	mA	@ Rated V _R , T _A = +25°C
			—	—	20		@ Rated V _R , T _A = +100°C
Total Capacitance		C _T	—	200	—	pF	V _R = 4V, f = 1MHz

Notes: 7. Device mounted on FR-4 PCB, with minimum recommended pad layout.
8. Device mounted on glass epoxy substrate with 2x3mm copper pad.
9. Short duration pulse test used to minimize self-heating effect.

RATING AND VCHARACTERISTIC CURVES(B320A THUR B360A)



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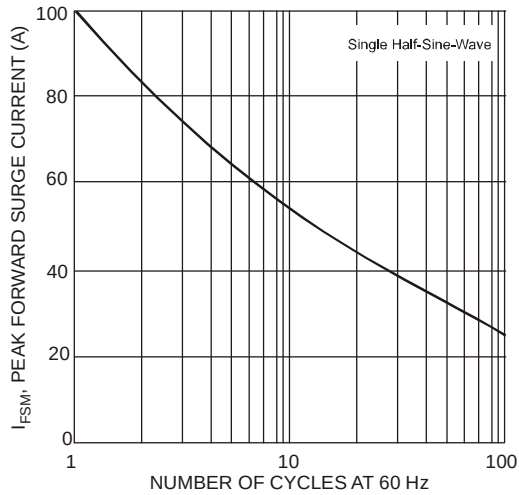


Fig. 7 Max Non-Repetitive Peak Fwd Surge Current

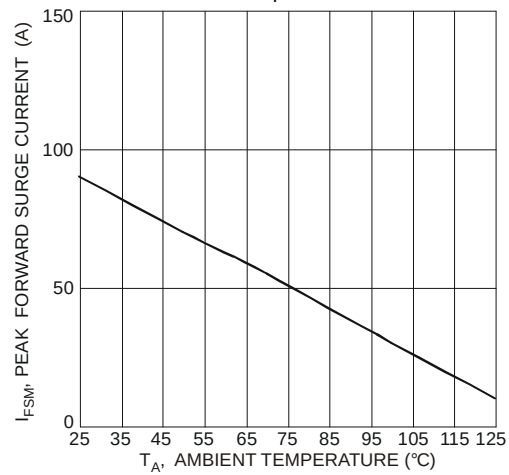


Fig. 8 Non-Repetitive Forward Surge Current Derating Curve

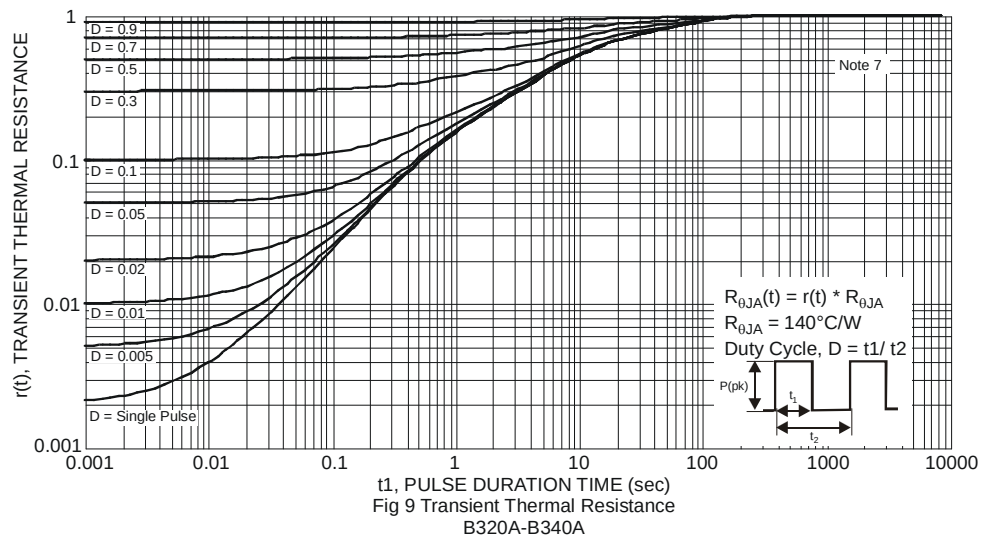


Fig 9 Transient Thermal Resistance
B320A-B340A

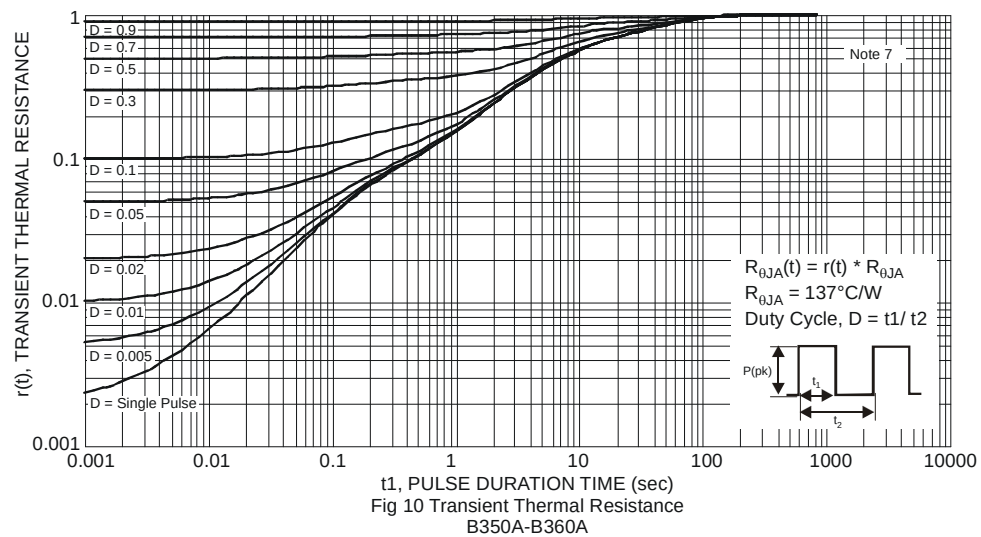


Fig 10 Transient Thermal Resistance
B350A-B360A

RATING AND VCHARACTERISTIC CURVES(B320A THUR B360A)

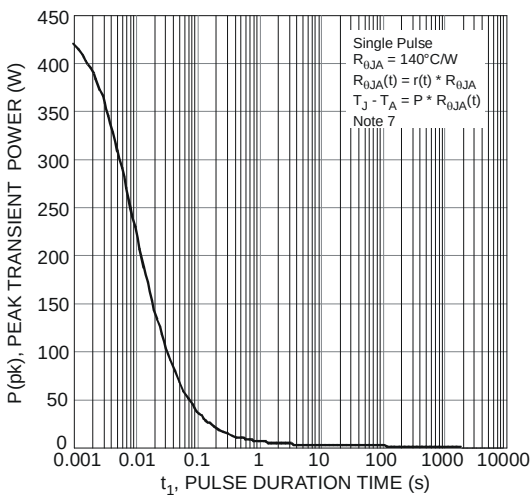


Fig. 11 Single Pulse Maximum Power Dissipation (B320A-B340A)

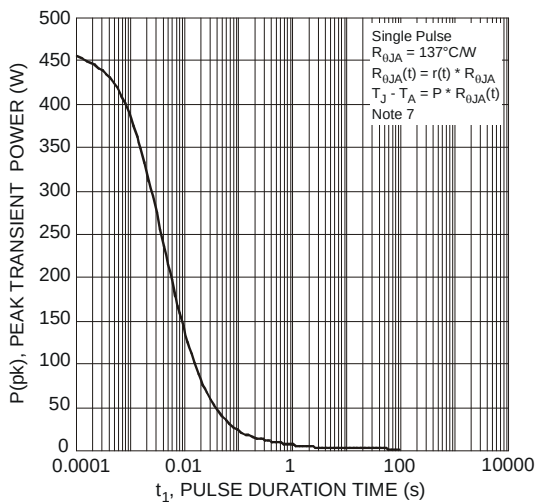


Fig. 12 Single Pulse Maximum Power Dissipation (B350A-B360A)