

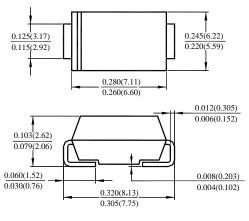
SCHOTTKY DIODES

FEATURES

- Guard Ring Die Construction for Transient Protection
- · Ideally Suited for Automatic Assembly
- · Low Power Loss, High Efficiency
- Surge Overload Rating to 125A Peak
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Application

MECHANICAL DATA

Case: SMC Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 Moisture Sensitivity: Level 1 per J-STD-020C Terminals: Lead Free Plati ng (Matte Tin Finish). Solderable per MIL-STD-202, Method 208 Weight: 0.21 grams (approximate)



Dimensions in inches and (millimeters) DO-214AB (SMC)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	B320	B330	B340	B350	B360	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	20	30	40	50	60	V
RMS Reverse Voltage		V _{R(RMS)}	14	21	28	35	42	V
Average Rectified Output Current	@ T _T =100 °C	Ιo	3.0					А
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	125					А
Forward Voltage (Note 3)	@ I _F = 3.0A	V_{FM}	0.50 0.70			70	V	
Peak Reverse Current at Rated DC Blocking Voltage (Note 3)	@ $T_A = 25^{\circ}C$ @ $T_A = 100^{\circ}C$	I _{RM}	0.5 20					mA
Typical Capacitance (Note 2)		CT			200			pF
Typical Thermal Resistance, Junction to Terminal		$R_{\theta JT}$	20					°C/W
Typical Thermal Resistance, Junction to Ambient (Note 1)		$R_{ ext{ heta}JA}$	90					°C/W
Operating Temperature Range		Tj	-55 to +125					°C
Storage Temperature Range		T _{STG}	-55 to +150					°C

Notes: Thermal Resistance: Junction to terminal, unit mounted on glass epoxy substrate with 2x3mm copper pad 1.

- 2.
- Measured at 1.0MHz and applied reverse voltage of 4.0V DC. Short duration test pulse used to minimize self-heating effect. 3.
- 4. RoHS revision 13.2.2003. Glass and high temperature solder exemptions applied, see EU Directive Annex Notes 5 and 7.

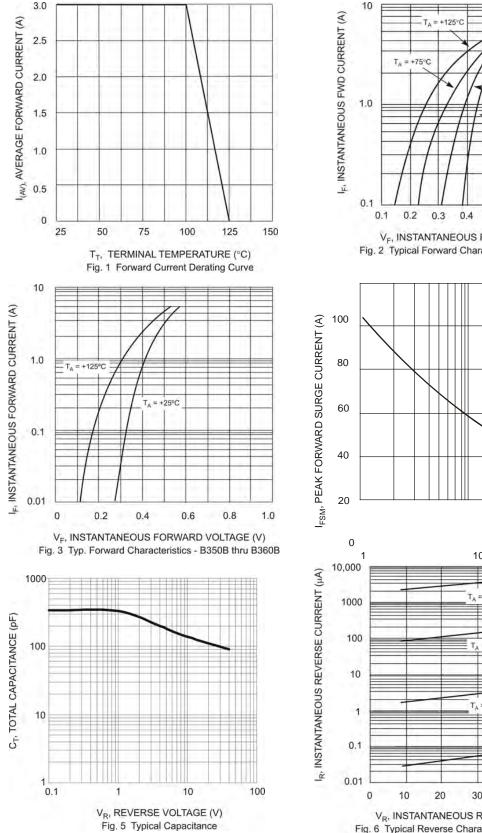


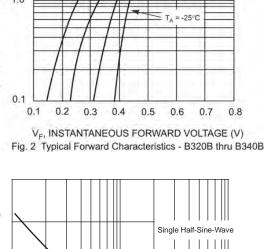
B320-B360

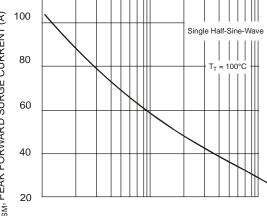
= +25°C

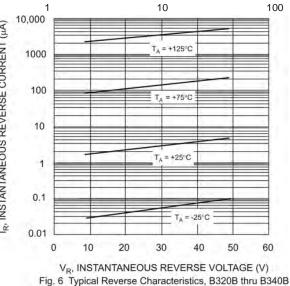


B320-B360 Typical Characteristics









EHottech