

30BQ060PBF

SURFACE MOUNT SCHOTTKY BARRIER DIODES

VOLTAGE RANGE: 60V CURRENT: 3.0 A

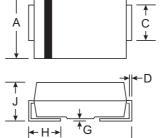
Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)





F

В

SMC/DO-214AB			
Dim	Min	Max	
Α	5.59	6.22	
В	6.60	7.11	
С	2.75	3.18	
D	0.15	0.31	
Е	7.75	8.13	
G	0.10	0.20	
Н	0.76	1.52	
J	2.00	2.62	
All Dimensions in mm			

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

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

Characteristic	Symbol	30BQ060PBF	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	60	v
RMS Reverse Voltage	VR(RMS)	42	V
Average Rectified Output Current $@T_{L} = 95^{\circ}C$ (Note 1)	lo	3.0	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	80	A
Forward Voltage $@I_F = 3.0A$	Vfm	0.75	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	IRM	0.5 20	mA
Typical Junction Capacitance (Note 2)	Cj	250	pF
Typical Thermal Resistance (Note 1)	R∂JA	20	°C/W
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150	°C

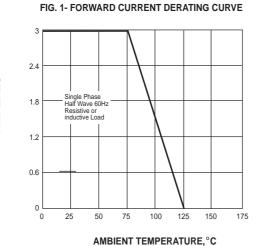
Note: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

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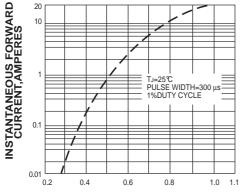


RATINGS AND CHARACTERISTIC CURVES 30BQ060PBF

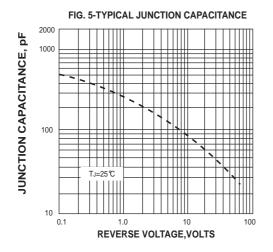
AVERAGE FORWARD RECTIFIED CURRENT, AMPERES







INSTANTANEOUS FORWARD VOLTAGE, VOLTS



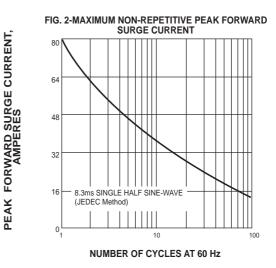
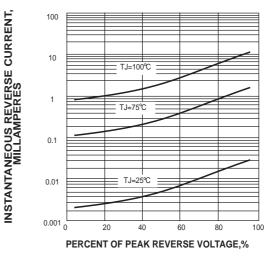
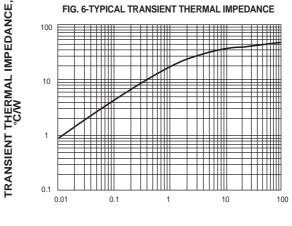


FIG. 4-TYPICAL REVERSE CHARACTERISTICS







t,PULSE DURATION,sec.