

VOLTAGE RANGE: 40 - 100V

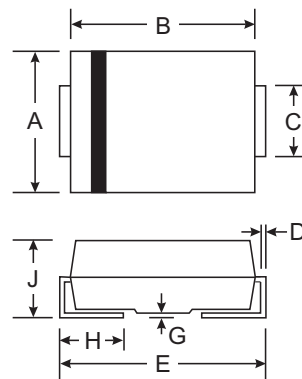
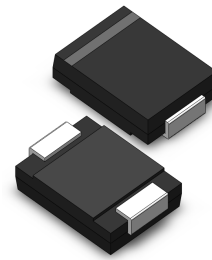
CURRENT: 3.0 A

Features

- For Surface Mounted Applications
- High Temperature Metallurgically Bonded Contacts
- Plastic Material - UL Flammability
- Classification 94V-0
- High Reliability
- High Current Capability and Low VF
- Submersible Temperature of 265°C for 10 Seconds in Solder Bath

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.)



SMC/DO-214AB		
Dim	Min	Max
A	5.59	6.22
B	6.60	7.11
C	2.75	3.18
D	0.15	0.31
E	7.75	8.13
G	0.10	0.20
H	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	30BQ040PBF	30BQ060PBF	30BQ100PBF	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	40	60	100	V
Maximum RMS voltage	V _{RMS}	28	42	70	V
Maximum DC blocking voltage	V _{DC}	40	60	100	V
Maximum average forward rectified current at T _L (see fig.1)	I _(AV)	3.0			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100.0			A
Maximum instantaneous forward voltage at 3.0A	V _F	0.50	0.70	0.85	V
Maximum DC reverse current at rated DC blocking voltage	I _R	0.5			mA
<small>T_A=25°C</small> <small>T_A=100°C</small>		20	10		
Typical junction capacitance (NOTE 1)	C _J	500	300		pF
Typical thermal resistance (NOTE 2)	R _{θJA}	55.0			°C/W
Operating junction temperature range	T _J	-65 to +125	-65 to +150		°C
Storage temperature range	T _{STG}	-65 to +150			°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES 30BQ040PBF THRU 30BQ100PBF

