

FEATURES

- Ideal for automated placement
- Low forward voltage drop
- Low leakage current
- Meets environmental standard MIL-S-19500D
- Moisture sensitivity: level 1, per J-STD-020
- Solder dip 275 °C, 10 s
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC



Package: DO-214AA (SMB)

APPLICATIONS

For use in general purpose rectification of lighting, power supplies, inverters, converters and freewheeling diodes for consumer, automotive and telecommunication.



PRIMARY CHARACTERISTICS	
$I_{F(AV)}$	3 A
V_{RRM}	20V to 60 V
I_{FSM}	120A
V_F	0.50V&0.70V
T_J max.	125 °C

MECHANICAL DATA

Case: DO-214AC, molded epoxy body, Epoxy meets UL 94V-0 flammability rating

Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD22B-106

Polarity: Laser Band Denotes Cathode Band

MAXIMUM RATINGS (TA = 25 °C unless otherwise noted)							
PARAMETER	SYMBOL	SK32B	SK33B	SK34B	SK35B	SK36B	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	V
Maximum average forward rectified current at TL (See Fig.1)	$I_{F(AV)}$	3					A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	100					A
Operating junction temperature range	T_J	- 55 to + 125					°C
Storage temperature range	T_{stg}	- 55 to + 125					°C



SK32B thru SK36B

Surface Mount Schottky Rectifier
Reverse Voltage 20 - 60V Forward Current 3A

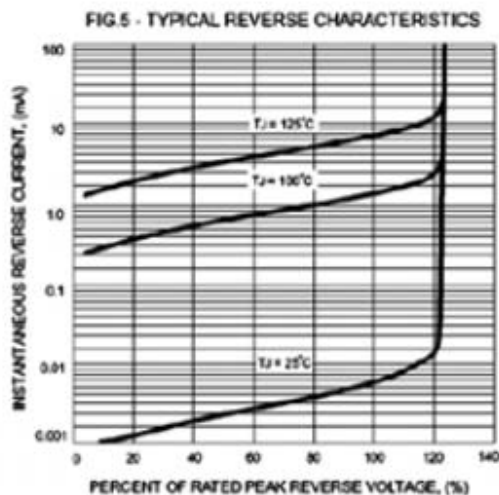
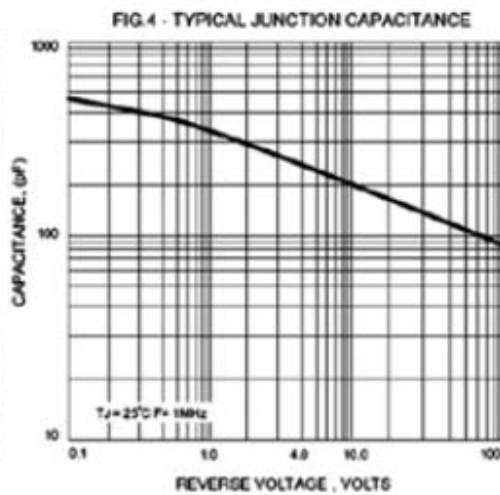
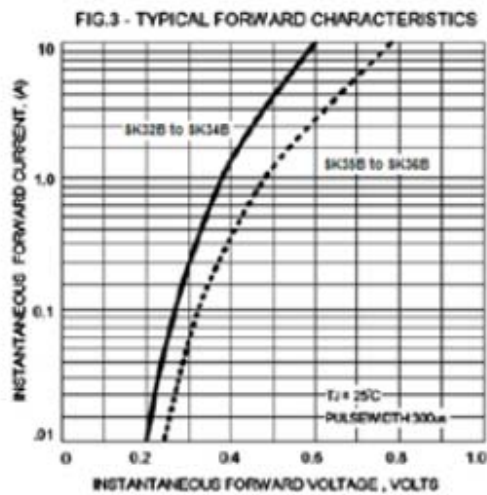
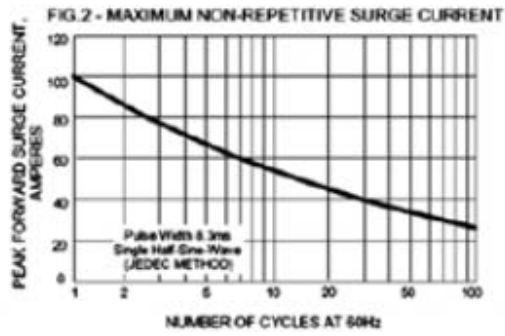
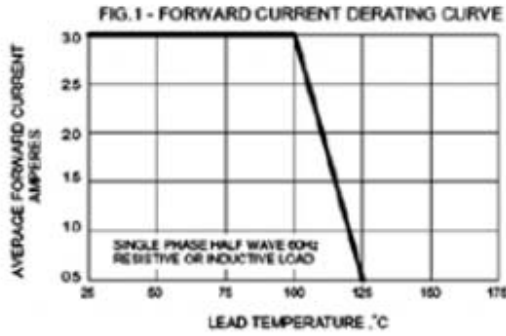
ELECTRICAL CHARACTERISTICS (T _A = 25 °C unless otherwise noted)								
PARAMETER	TEST CONDITIONS	SYMBOL	SK32B	SK33B	SK34B	SK35B	SK36B	UNIT
Maximum instantaneous forward voltage	I _F =3A	V _F	0.50			0.70		V
Maximum DC reverse current at rated DC blocking voltage	T _J =25°C	I _R	0.5					mA
	T _J =100°C		20					
Typical junction capacitance	4.0 V, 1 MHz	C _J	250					pF
Typical thermal resistance		R _{θJA} (1)	50					°C/W
		R _{θJT} (2)	10					

Notes: (1) Thermal resistance from junction to ambient, 0.3×0.3" (8.0×8.0mm) copper pads to each terminal

(2) Thermal resistance from junction to terminal, 0.3×0.3" (8.0×8.0mm) copper pads to each terminal

RATINGS AND CHARACTERISTICS CURVES

($T_A = 25^\circ\text{C}$ unless otherwise noted)





SK32B thru SK36B

Surface Mount Schottky Rectifier
Reverse Voltage 20 - 60V Forward Current 3A

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

