

SK32 THRU SK320

CURRENT 3.0 A
VOLTAGE 20 to 200 V

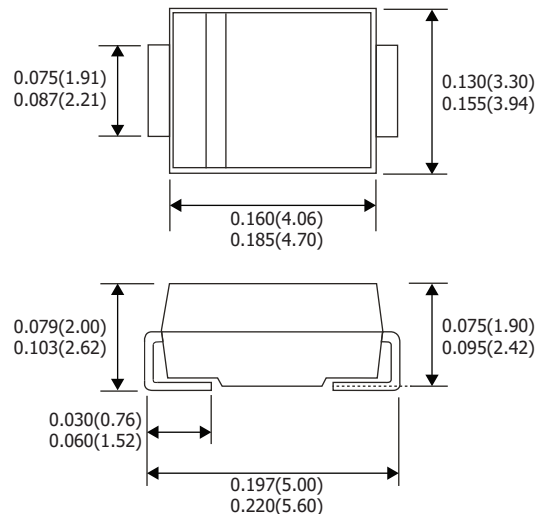
Features

- Low profile package
- Ideal for automated placement
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering :
260°C/10 seconds at terminals
- Component in accordance to
RoHS 2011/65/EU and WEEE 2002/96/EC

Mechanical Data

- Case : JEDEC DO-214AA(SMB)
Molding compound meets
UL 94 V-0 flammability rating
- Terminals : Solder plated, solderable per
MIL-STD-750, Method 2026
- Polarity : Laser band denotes cathode end

DO-214AA(SMB)



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

(TA = 25°C unless otherwise noted)

Items		Symbols	SK32	SK33	SK34	SK35	SK36	SK38	SK310	SK315	SK320	Units
Maximum repetitive peak reverse voltage		V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage		V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage		V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current at T _L (see Fig.1)		I _{F(AV)}	3									A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	100									A
Thermal resistance from junction to lead ⁽¹⁾		R _{θJL}	25									°C/W
Operating junction and storage temperature range		T _J ,T _{STG}	-65 to +125						-65 to +150			°C
Instantaneous forward voltage I _F =3.0A ⁽²⁾		V _F	0.50	0.55		0.70		0.85		0.95		V
Reverse current V _R =V _{DC}	T _J =25°C	I _R	0.5									mA
	T _J =100°C		5.0									

Notes:

(1) Mounted on P.C.B. with 0.28 x 0.28" (7.0 x 7.0mm) copper pad areas.

(2) Pulse test:300μs pulse width,1% duty cycle.

RATINGS AND CHARACTERISTIC CURVES SK32 THRU SK320

FIG.1-FORWARD CURRENT DERATING CURVE

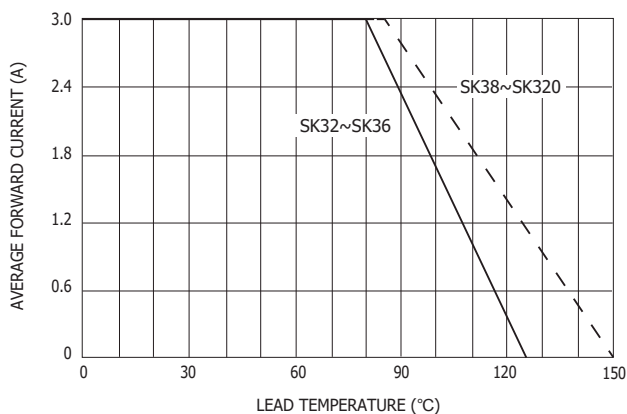


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

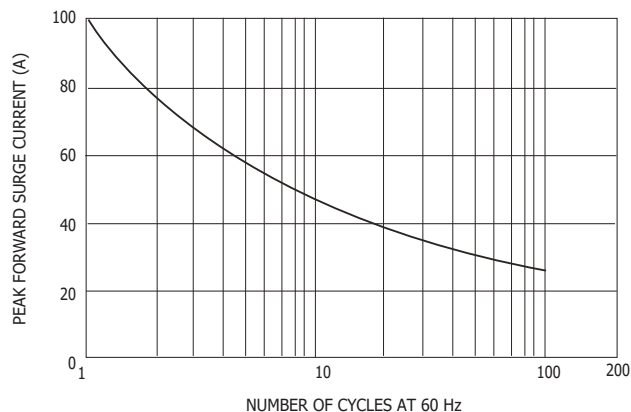


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

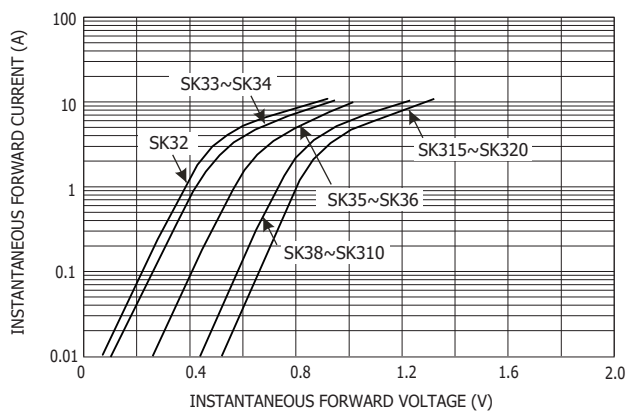


FIG.4-TYPICAL REVERSE CHARACTERISTICS

