Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- High current capability
- Very low forward voltage drop
- Epitaxial construction
- Metal-Semiconductor junction with guardring
- For use in low voltage, high frequency inverters, Free-wheeling, and polarity protection applications

EC76SK22~EC76SK26



DO-214AA(SMB)

Applications

- Case : JEDEC DO-214AA(SMB) molded plastic
- Polarity : Indicated by cathode band
- Weight : 0.003 ounce, 0.093 gram

Maximum Ratings and Electrical Characteristics

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

Parameter	Symbol	EC76SK22	EC76SK24	EC76SK26	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	60	V
Maximum RMS voltage	V_{RMS}	14	28	42	V
Maximum DC blocking voltage	V_{DC}	20	40	60	V
Maximum average forward rectified current @T_L=100℃	$I_{F(AV)}$	2.0			A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50.0			A
Maxmum forward @T_J =25℃ voltage at 3.0ADC @T_J =100℃	V_F	0.50		0.70	V
Maximum DC reverse current @T_J =25℃ at rated DC blocking voltage @T_J =100℃	I_R	0.5 20			mA
Typical junction capacitance (Note 1)	C_J	200			pF
Typical thermal resistance (Note 2,3)	$R_{\theta JL}$ $R_{\theta JA}$	25 85			℃/W
Operating junction temperature range	T_J	-55 to +125			℃
Storage temperature range	T_{STG}	-55 to +150			℃

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal Resistance Junction to Lead.
3. Thermal Resistance Junction to Ambient.

Typical Performance Curves

FIG.1 - FORWARD CURRENT DERATING CURVE

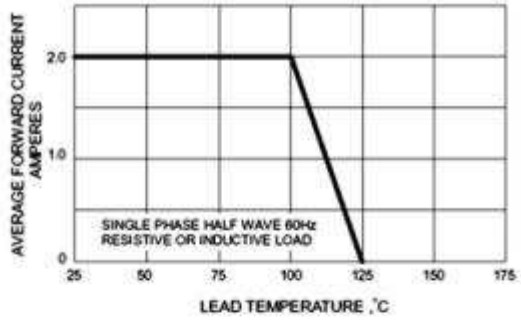


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

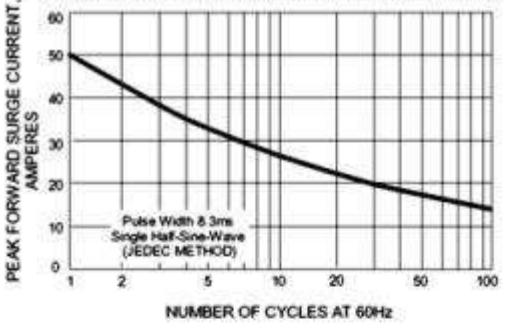


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

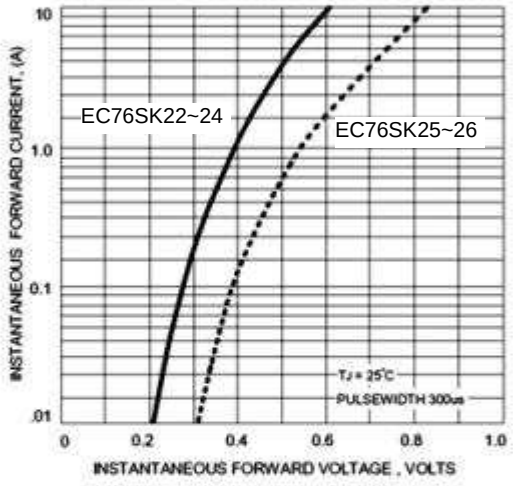


FIG.4 - TYPICAL JUNCTION CAPACITANCE

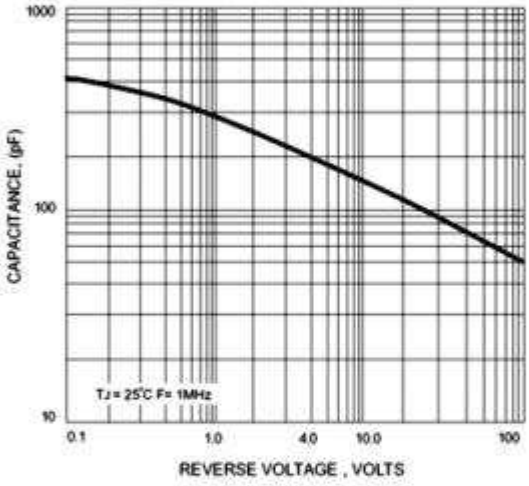
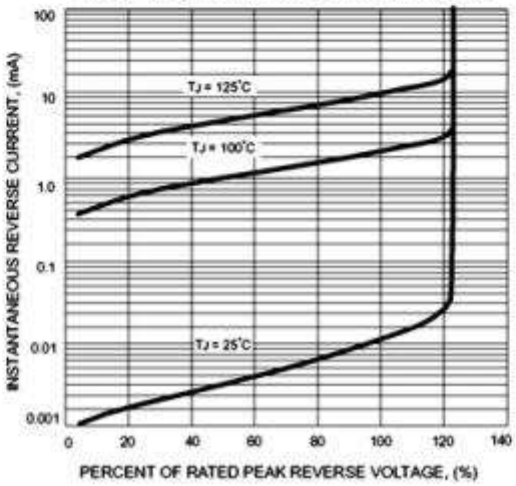
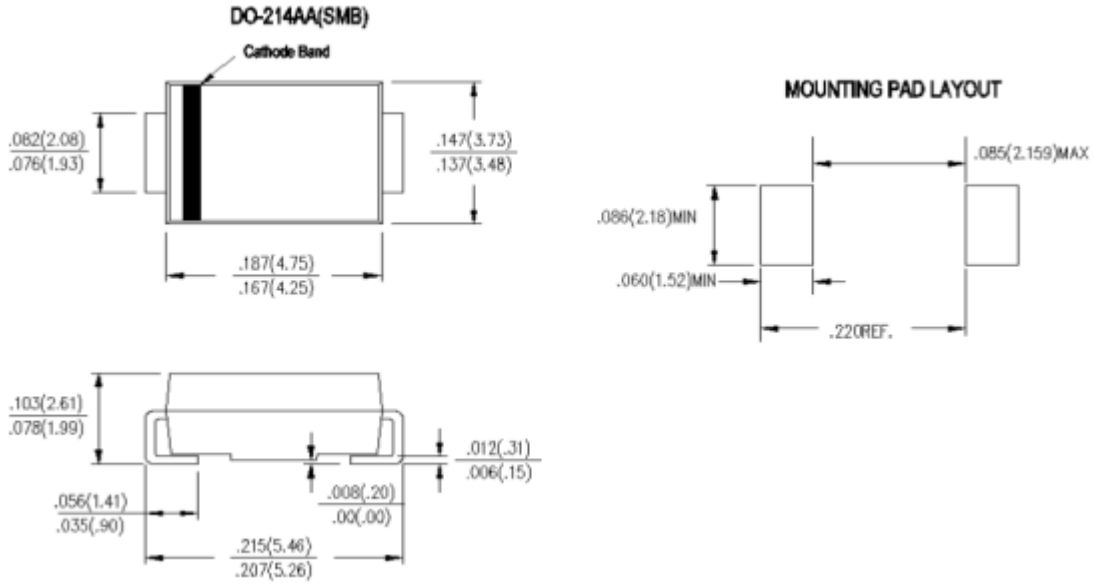


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



Product Dimension



Device	Package	Net Weight	Carrier	Quantity	HSF Status
EC76SK2x	DO-214AA(SMB)	0.093g	Tape & Reel	3000pcs/reel	RoHS compliant