

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

**SMA**

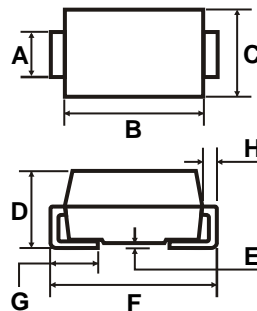
## FEATURES

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Super low forward voltage drop



## MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.063 grams



	Dimensions in Millimeters		Dimensions in Inches	
	A	1.25	1.65	0.049
B	3.99	4.60	0.157	0.181
C	2.50	2.90	0.098	0.114
D	1.98	2.44	0.078	0.096
E	0.051	0.203	0.002	0.008
F	4.78	5.28	0.188	0.208
G	0.76	1.52	0.030	0.060
H	0.152	0.305	0.006	0.012

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SK32L	SK32LL	SK34L	SK34LL	UNITS
Maximum Recurrent Peak Reverse Voltage	20	20	40	40	V
Maximum RMS Voltage	14	14	28	28	V
Maximum DC Blocking Voltage	20	20	40	40	V
Maximum Average Forward Rectified Current	3.0				A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	90				A
Maximum Instantaneous Forward Voltage at 3.0A	0.42	0.38	0.45	0.40	V
Maximum DC Reverse Current $T_a=25^\circ\text{C}$	1.5				mA
at Rated DC Blocking Voltage $T_a=80^\circ\text{C}$	60				mA
Operating Temperature Range $T_J$	-25 ~ +100				°C
Storage Temperature Range $T_{STG}$	-50 ~ +125				°C
Typical Total Capacitance ( $C_T$ )	180				pF
Typical Thermal Resistance, Junction to Terminal ( $R_{\theta JT}$ )	25				°C/W

Notes: 1. Typical Total Capacitance Conditions  $f=1\text{MHz}, V_R=4.0\text{VDC}$

RATING AND CHARACTERISTIC CURVES (SK32L THRU SK34LL)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

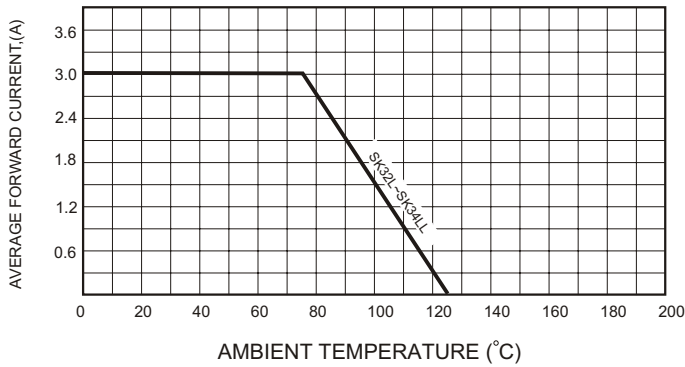


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

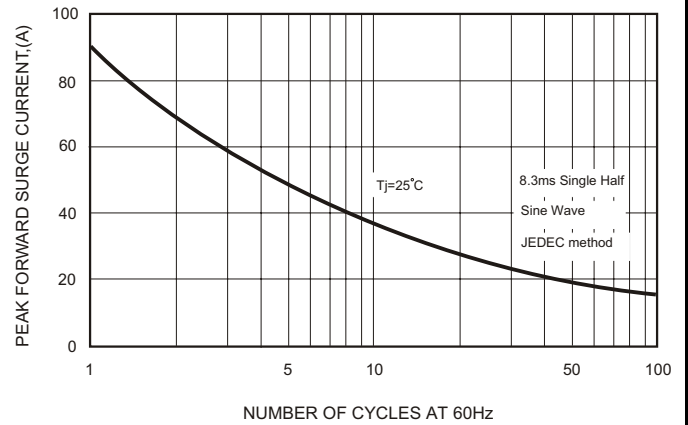


FIG.3-TYPICAL JUNCTION CAPACITANCE

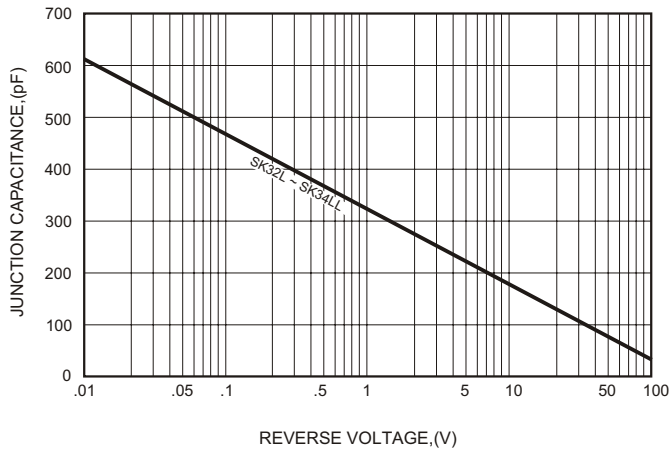


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

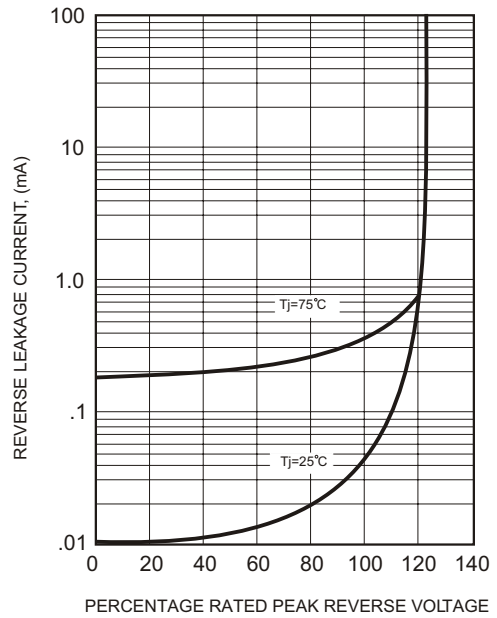


FIG. 5 (For SK32L)

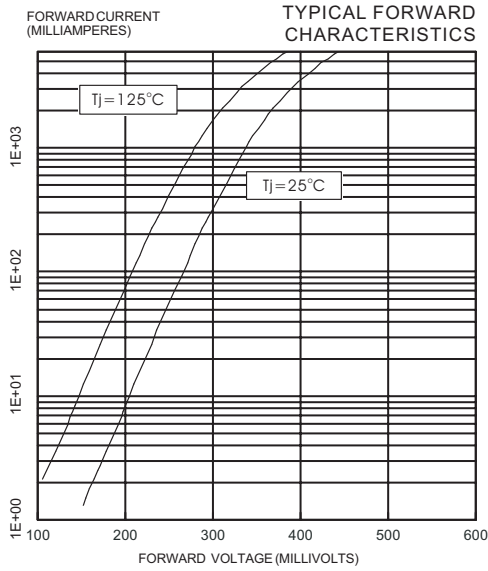


FIG. 6 (For SK32LL)

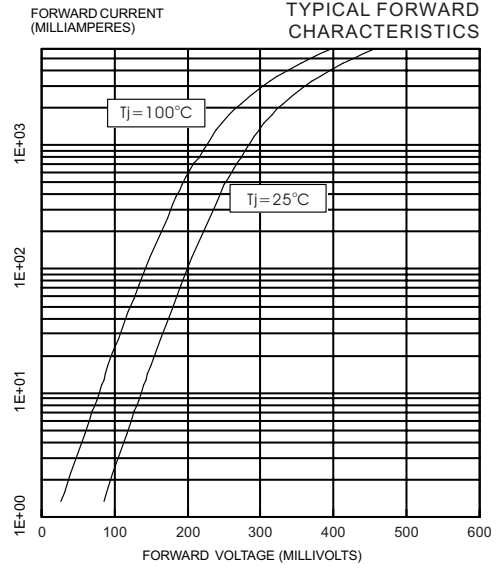


FIG. 7 (For SK34L)

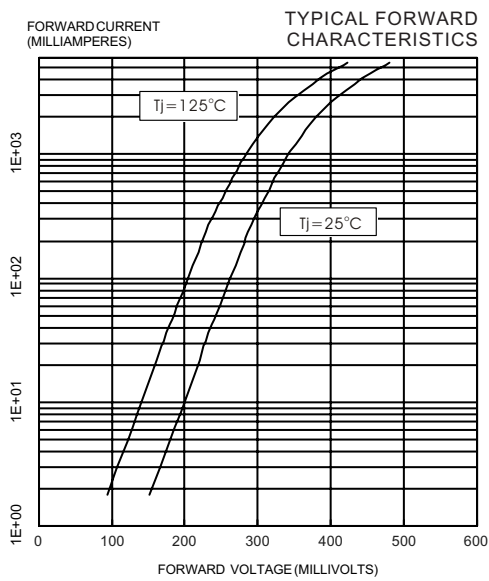


FIG. 8 (For SK34LL)

