

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

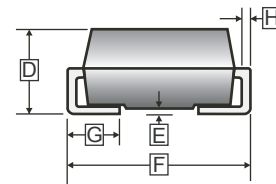
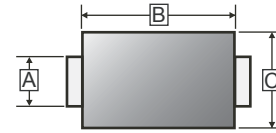
FEATURES

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief

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

SMA



PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	1K	7 inch

REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.24	1.65	E	-	0.203
B	3.99	4.60	F	4.80	5.28
C	2.50	2.90	G	0.76	1.52
D	1.98	2.44	H	0.15	0.305

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, de-rate current by 20%.)

Parameter	Symbol	Rating				Unit
		SK32L	SK32LL	SK34L	SK34LL	
Peak Repetitive Peak reverse voltage	V_{RRM}	20	20	40	40	V
Working Peak Reverse Voltage	V_{RWM}	20	20	40	40	V
Maximum DC Blocking Voltage	V_R	20	20	40	40	V
Average Forward Current	$I_{F(AV)}$	3				A
Peak Forward Current @ 8.3 ms Half Sine	I_{FSM}	90				A
Maximum Instantaneous Forward Voltage @ $I_F=3A$	V_F	0.42	0.38	0.45	0.4	V
Maximum DC Reverse Current At Rated DC Blocking	$T_A=25^\circ C$	1.5				mA
	$T_A=80^\circ C$	60				
Typical Total Capacitance ⁴	C_T	180				pF
Typical Thermal Resistance ¹	$R_{\theta JA}$	55				°C / W
Typical Thermal Resistance ²	$R_{\theta JC}$	20				°C / W
Operating And Storage Temperature Range	T_J, T_{STG}	-25~100, -50~125				°C

Notes:

1. Thermal Resistance Junction to Ambient
2. Thermal Resistance Junction to Case
3. Pulse Test : Pulse Width $\leq 300 \mu s$, Duty Cycle $\leq 2.0\%$.
4. Typical Total Capacitance Conditions $f=1MHz, V_R=4.0VDC$

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

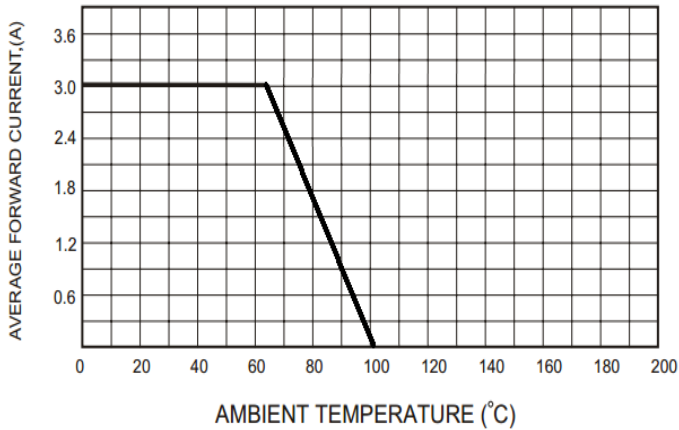


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

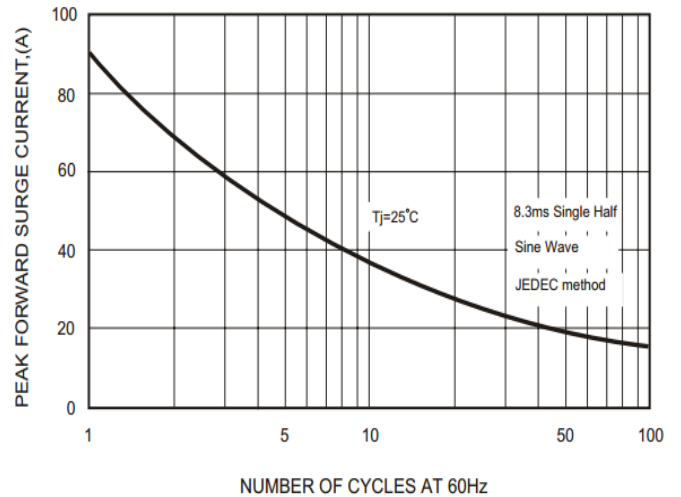


FIG.3-TYPICAL JUNCTION CAPACITANCE

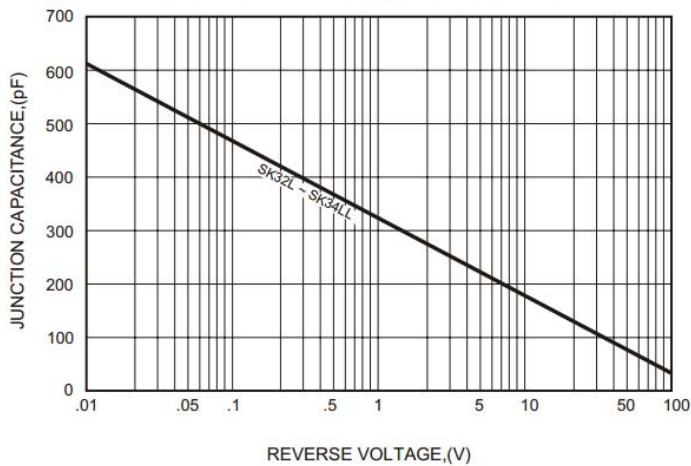


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

