

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

FEATURES

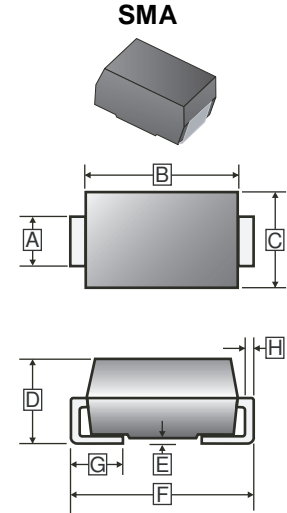
- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Super low forward drop

MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 rate flame retardant
- Metallurgically bonded construction
- Polarity: Color band denotes cathode end
- Mounting position: Any

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMA	5K	13 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.24	1.65	E	-	0.203
B	3.99	4.75	F	4.80	5.28
C	2.40	2.90	G	0.76	1.52
D	1.90	2.44	H	0.15	0.31

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
		SK 12L	SK 12LL	SK 12SL	SK 14L	SK 14LL	SK 14SL	
Maximum Recurrent Peak Peak Reverse voltage	V_{RRM}	20	20	20	40	40	40	V
Maximum RMS Voltage	V_{RMS}	14	14	14	28	28	28	V
Maximum DC Blocking Voltage	V_R	20	20	20	40	40	40	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1						A
Peak Forward Surge Current@ 8.3ms half- sine wave superimposed on rated load (JEDEC method)	I_{FSM}	35	45	70	45	70	90	A
Maximum Instantaneous Forward Voltage@ $I_F=1A$	V_F	0.36	0.32	0.31	0.38	0.34	0.31	V
Maximum DC Reverse Current at Rated DC Blocking	$T_A=25^\circ C$	1						mA
	$T_A=80^\circ C$	40						
Typical Thermal Resistance from Junction to Ambient ¹	$R_{\theta JA}$	87						°C/ W
Typical Thermal Resistance from Junction to Lead ²	$R_{\theta JL}$	28						°C/ W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	80, -50~125						°C

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

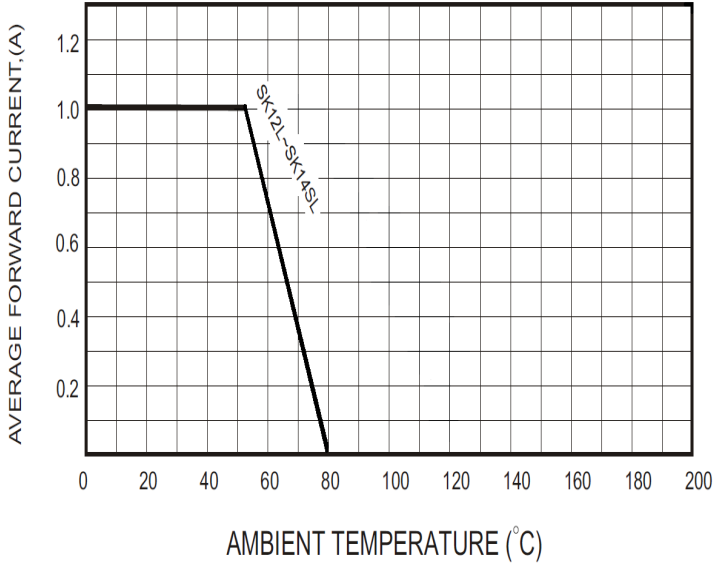


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

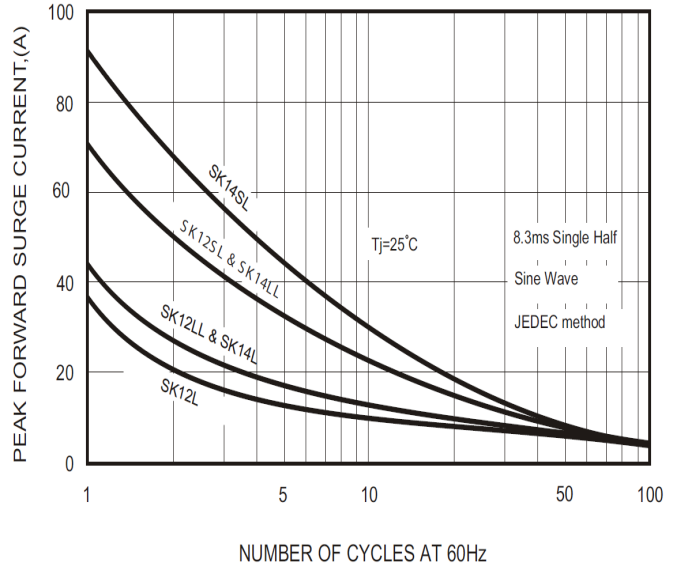


FIG.3-TYPICAL JUNCTION CAPACITANCE

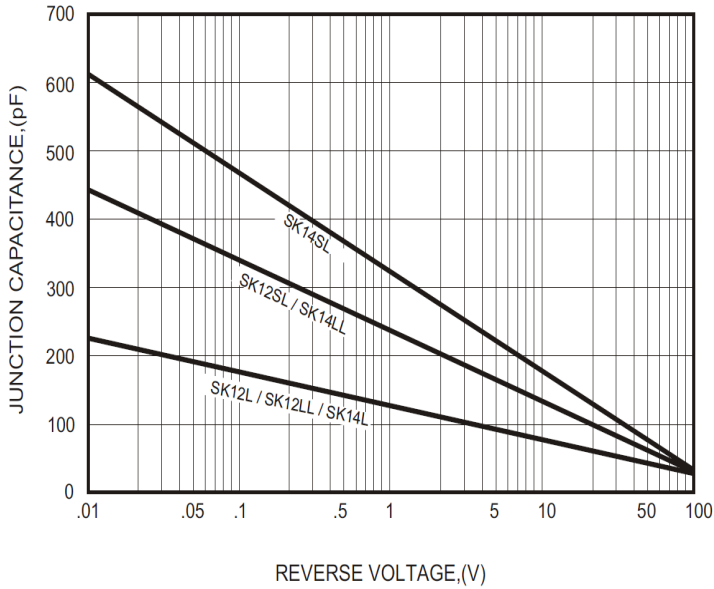
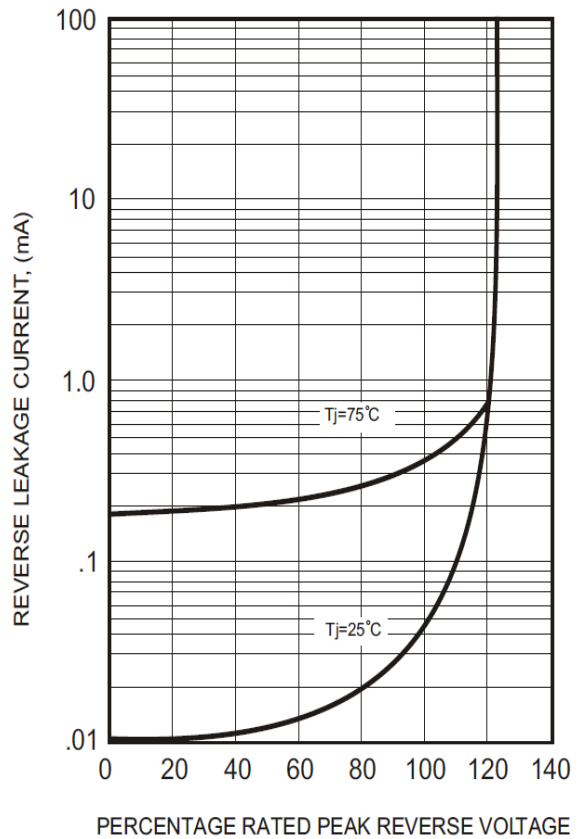


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



RATINGS AND CHARACTERISTIC CURVES

FIG. 5 (For SK12L)

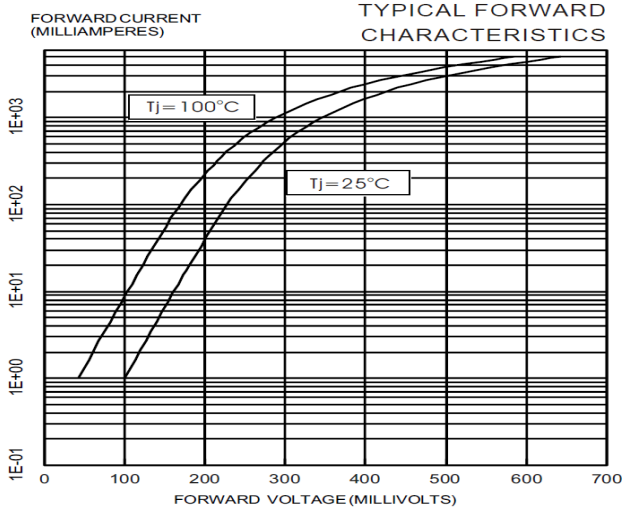


FIG. 6 (For SK12LL)

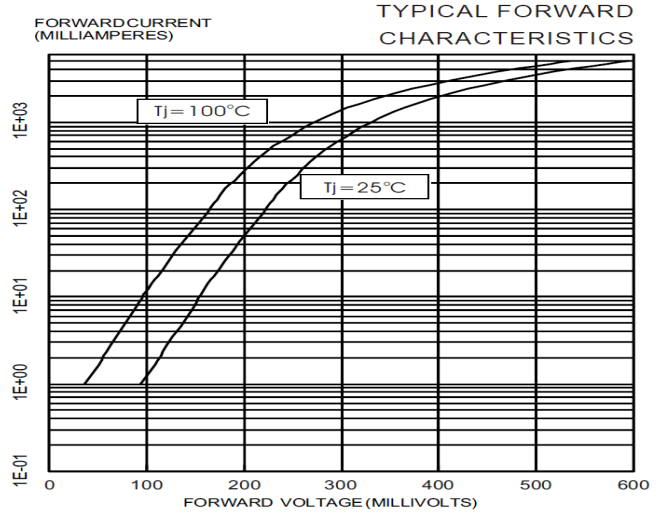


FIG. 7 (For SK12SL)

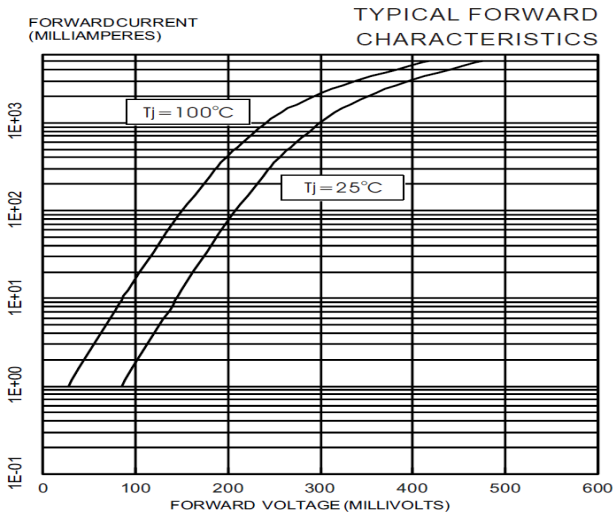


FIG. 8 (For SK14L)

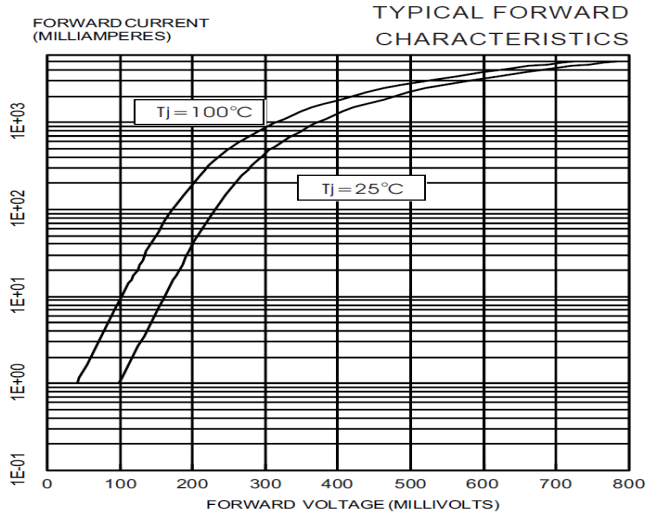


FIG. 9 (For SK14LL)

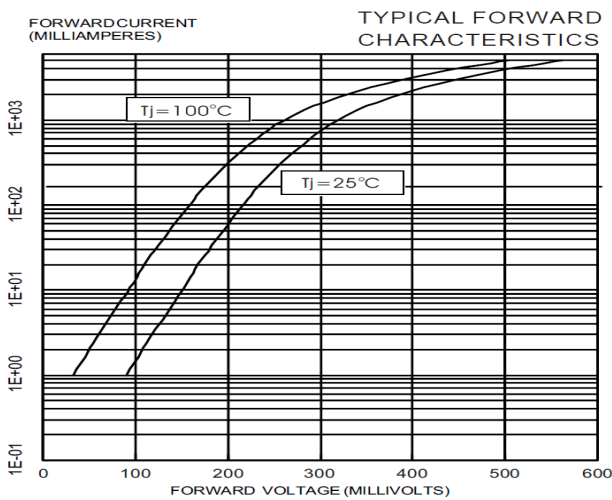


FIG. 10 (For SK14SL)

