

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

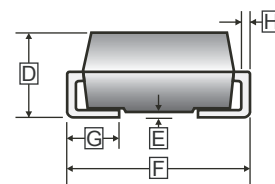
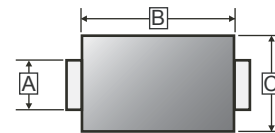
FEATURES

- 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

SMB



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.91	2.20	E	-	0.203
B	4.06	4.70	F	5.08	5.59
C	3.30	3.94	G	0.76	1.52
D	2.13	2.44	H	0.15	0.305

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMB	3K	13 inch

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%.)

Parameter	Symbol	Rating		Unit
		SK22BL	SK24BL	
Peak Repetitive Peak reverse voltage	V_{RRM}	20	40	V
Working Peak Reverse Voltage	V_{RWM}	20	40	V
Maximum DC Blocking Voltage	V_R	20	40	V
Average Forward Current	$I_{F(AV)}$	2		A
Peak Forward Current @ 8.3 ms Half Sine	I_{FSM}	50		A
Maximum Instantaneous Forward Voltage @ $I_F=2A$	V_F	0.45		V
Maximum DC Reverse Current At Rated DC Blocking	$T_A=25^\circ C$	1		mA
	$T_A=80^\circ C$	5		
Typical Thermal Resistance ¹	$R_{\theta JA}$	50		°C/W
Typical Thermal Resistance ²	$R_{\theta JC}$	20		°C/W
Operating And Storage Temperature Range	T_J, T_{STG}	-25~125, -50~150		°C

Notes:

1. Thermal Resistance Junction to Ambient
2. Thermal Resistance Junction to Case
3. Pulse Test : Pulse Width = 300 μs , Duty Cycle \leq 2.0%.

RATINGS AND CHARACTERISTIC CURVES

Typical Forward Current Derating Curve

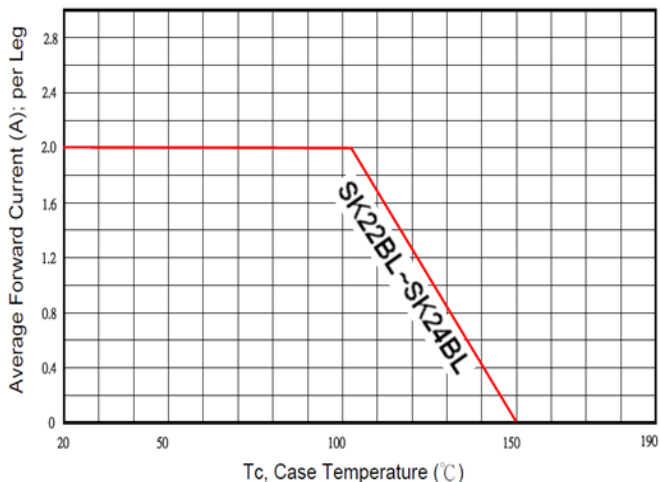


FIG.2 TYPICAL FORWARD CHARACTERISTICS

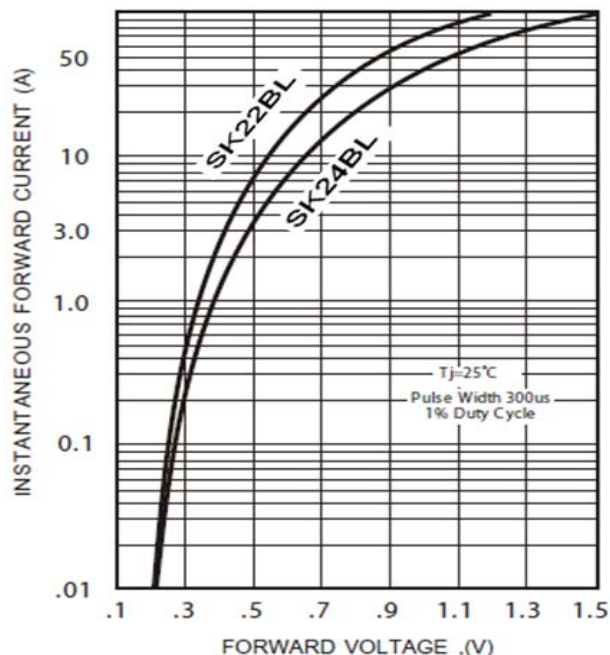


FIG .3-TYPICAL JUNCTION CAPACITANCE

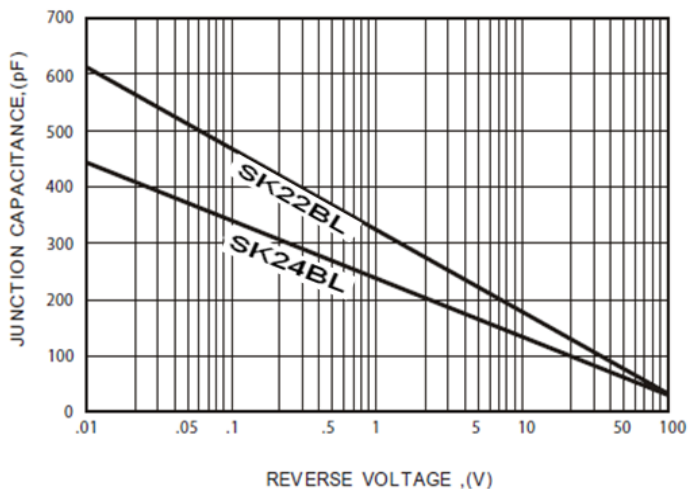


FIG .4 - TYPICAL REVERSE CHARACTERISTICS

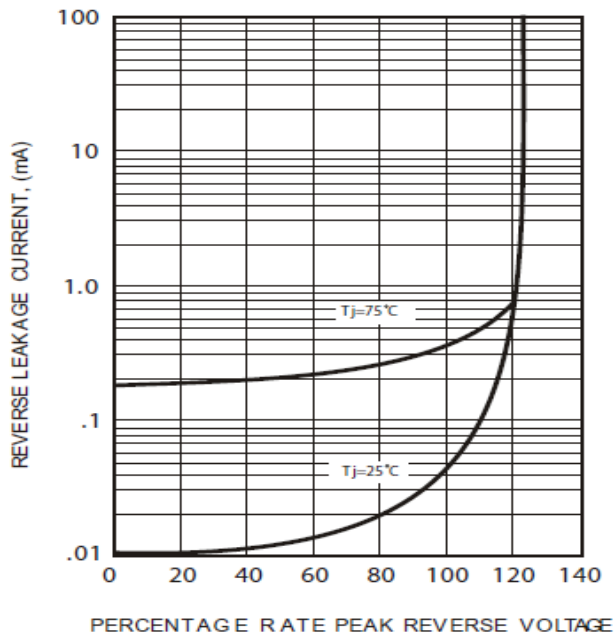


FIG.5 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

