Elektronische Bauelemente

SK32CL

Low V_F & Low I_R

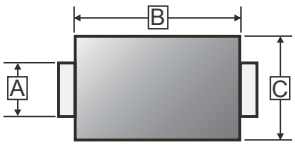
3.0 Amp Surface Mount Schottky Barrier Rectifiers

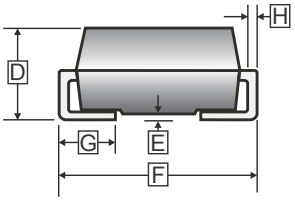
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Low profile package
- Ideal for automated placement
- Guard Ring for over voltage protection
- Low forward voltage drop
- Component in accordance to RoHS 2002/95/EC

SMC





REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.750	3.250	E	-	0.203
B	6.520	7.110	F	7.750	8.130
C	5.590	6.220	G	0.760	1.520
D	2.000	2.620	H	0.150	0.305

MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Lead Free Plating (Tin Finish). Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Mounting position: Any
- Weight: 0.095 grams

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMC	3K	13 inch

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

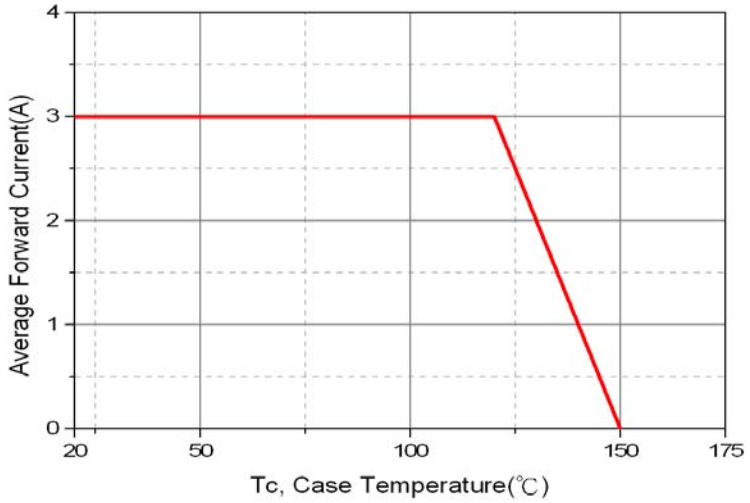
(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Rating	Unit
Maximum repetitive peak reverse voltage		V_{RRM}	20	V
Maximum RMS voltage		V_{RMS}	14	V
Maximum DC Blocking Voltage		V_{DC}	20	V
Maximum average forward rectified current		$I_{F(AV)}$	3	A
Peak Forward Current @ 8.3 ms Half Sine		I_{FSM}	150	A
Maximum Instantaneous Forward Voltage @ I_F=3A		V_F	0.42	V
Maximum DC Reverse Current At Rated DC Blocking [2]	T_A=25°C	I_R	0.1	mA
	T_A=100°C		10	
Typical Junction Capacitance [1]		C_J	200	pF
Typical Thermal Resistance		$R_{\theta JL}$	20	°C/W
Typical Thermal Resistance		$R_{\theta JC}$	25	°C/W
Operating And Storage Temperature Range		T_J ,T_{STG}	-55~150	°C

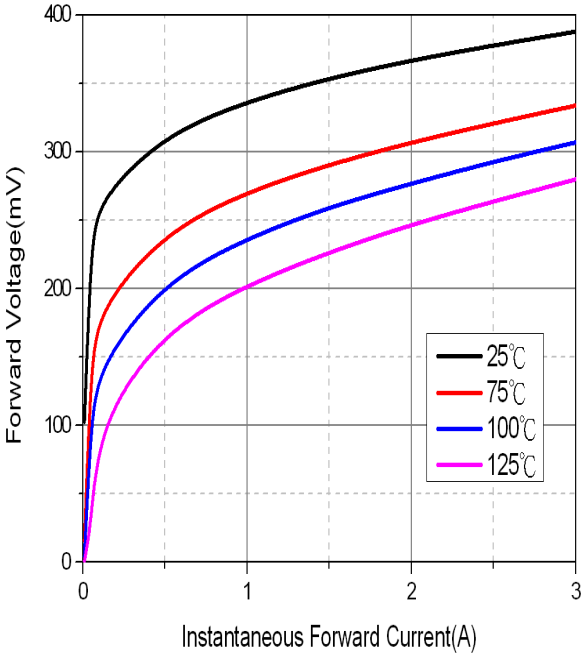
Note:
1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC.
2. Pulse test: 300μs pulse width, 1% duty cycle.

RATINGS AND CHARACTERISTIC CURVES

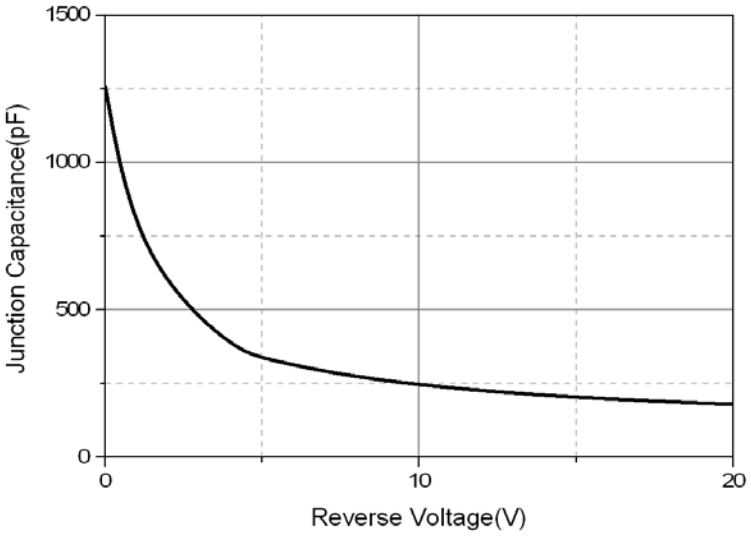
Typical Forward Current Derating Curve



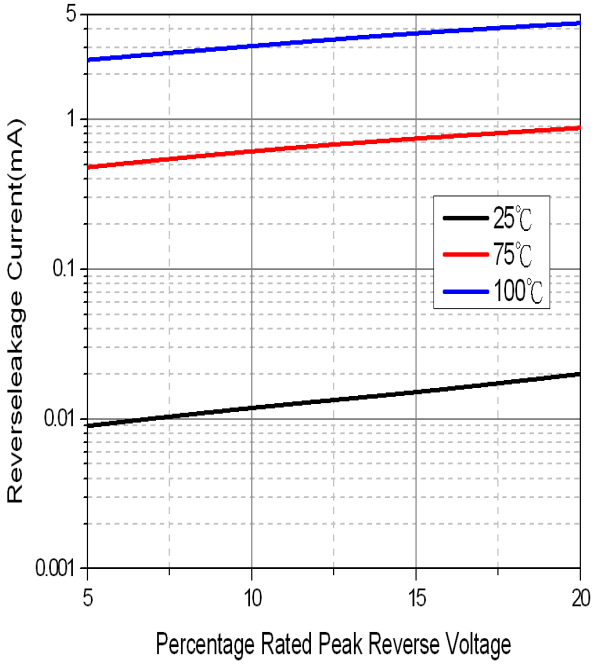
Typical Forward Characteristics



Typical Junction Capacitance



Typical Reverse Charrcteristics



Maximum Non-Repetitive Forward Surge Current