Elektronische Bauelemente

SK34CL

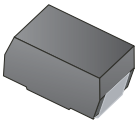
Voltage 40V
Low VF & Low IR
3.0 Amp Schottky Barrier Rectifiers

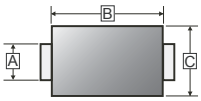
RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

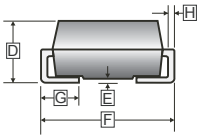
FEATURES

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Super Low V_F & Low I_R

SMC







REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.75	3.15	E	-	0.203
B	6.60	7.11	F	7.75	8.13
C	5.59	6.22	G	0.76	1.27
D	2.00	2.62	H	0.15	0.31

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
SMC	3K	13 inch

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

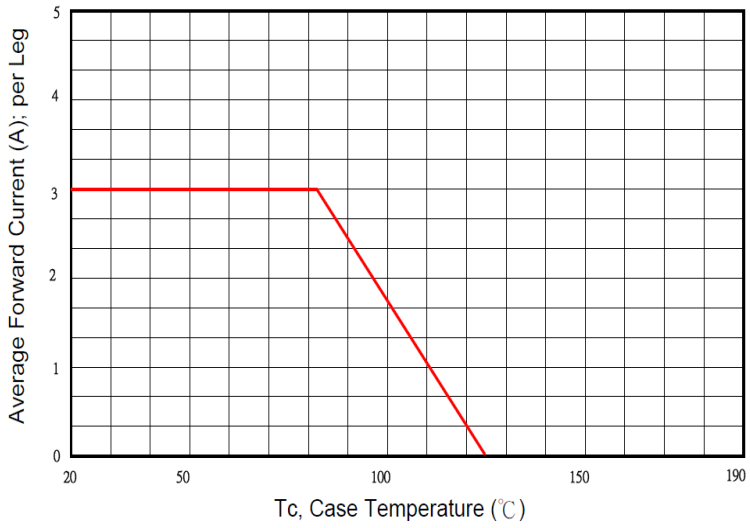
(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter		Symbol	Rating	Unit
Peak Repetitive Peak reverse voltage		V_{RRM}	40	V
Working Peak Reverse Voltage		V_{RWM}	40	V
Maximum DC Blocking Voltage		V_{DC}	40	V
Maximum Average Forward Current, See Fig. 1		I_F	3	A
Peak Forward Surge Current @ 8.3 ms Half Sine-Wave superimposed on rated load (JEDEC method)		I_{FSM}	90	
Maximum Instantaneous Forward Voltage @ I_F = 3A		V_F	0.42	V
Maximum DC Reverse Current At Rated DC Blocking Voltage [3]	T_A= 25°C	I_R	0.5	mA
	T_A= 80°C		5	
Voltage Rate of Chance (Rated VR)		dv/dt	10000	V / μS
Typical Thermal Resistance [1]		$R_{\theta JL}$	20	°C / W
Typical Thermal Resistance [2]		$R_{\theta JC}$	25	°C / W
Operating Temperature Range		T_J	-25~125	°C
Storage temperature		T_{STG}	-55~150	°C

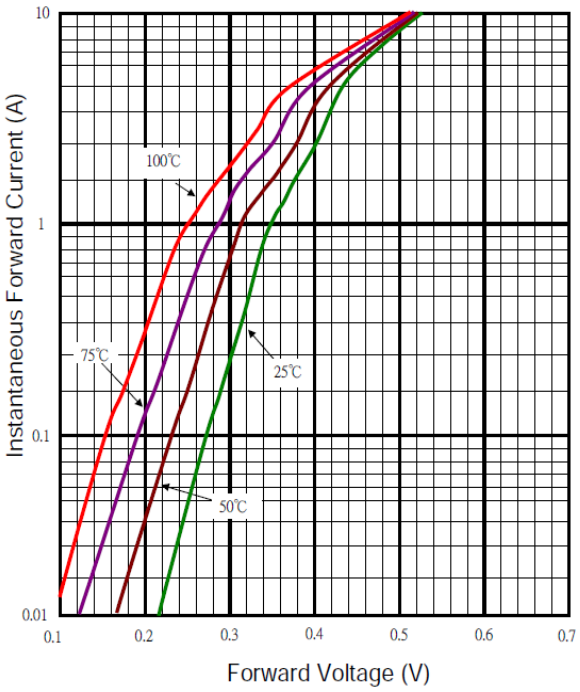
Notes:
1. Thermal Resistance Junction to Lead.
2. Thermal Resistance Junction to Case
3. Pulse test: 300μs pulse width, 1% duty cycle.

CHARACTERISTIC CURVES

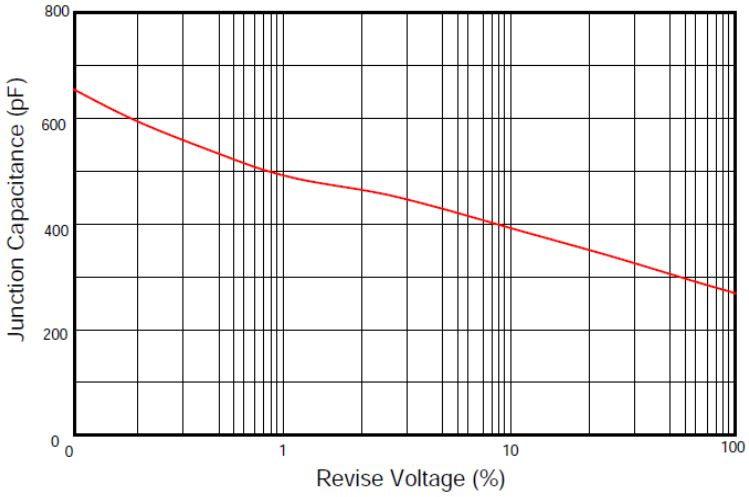
Typical Forward Current Derating Curve



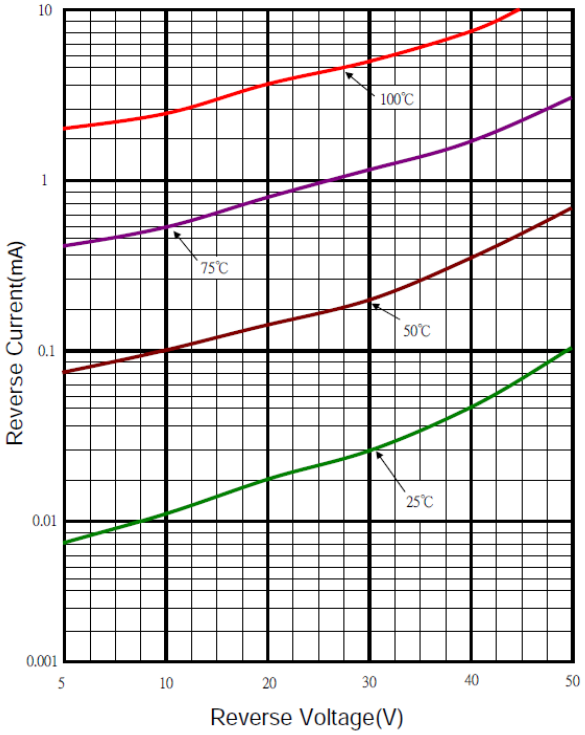
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current