Elektronische Bauelemente

MUR560C-C

Voltage 600 V

5.0 Amp Low Loss Ultrafast Rectifier

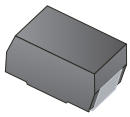
RoHS Compliant Product

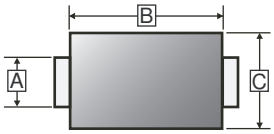
A suffix of "-C" specifies halogen free

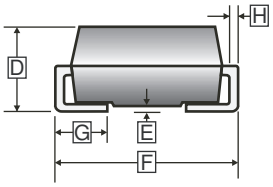
FEATURES

- Soft Reverse Recovery Diodes
- Low Profile Package
- Ideal for Automated Placement
- Low Reverse Current

SMC







REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.750	3.270	E	-	0.203
B	6.520	7.110	F	7.640	8.170
C	5.50	6.220	G	0.750	1.520
D	1.980	2.620	H	0.23 TYP	

MECHANICAL DATA

- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead Free Plating (Tin Finish) Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band

PACKAGE INFORMATION

Package	MPQ	Leader Size
SMC	3K	13 inch

ORDER INFORMATION

Part Number	Type
MUR560C-C	Lead (Pb)-free and Halogen-free

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

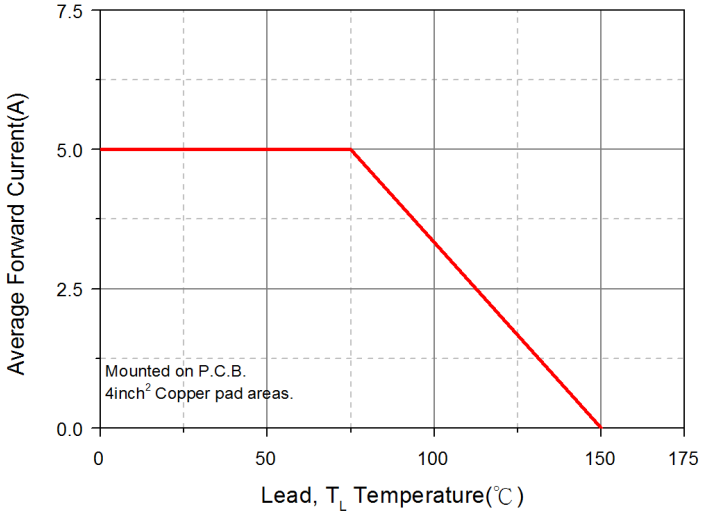
Parameter		Symbol	Rating	Unit
Peak Repetitive Reverse Voltage		V_{RRM}	600	V
Working Peak Reverse Voltage		V_{RWM}	600	V
DC Blocking Voltage		V_R	600	V
Average Rectifier Forward Current		$I_{F(AV)}$	5	A
Non-Repetitive Peak Surge Current @Surge applied at rate load conditions half-wave, single phase, 60Hz		I_{FSM}	50	A
Max. Instantaneous Forward Voltage @ IF=5A	T_J=25℃	V_F	1.35	V
	T_J=125℃		1.3	
Max. Instantaneous Reverse Current [1]	T_J=25℃	I_R	0.1	mA
	T_J=125℃		1	
Reverse Recovery Time [2]		T_{RR}	75	nS
Typical Junction Capacitance [3]		C_J	14	pF
Thermal Resistance from Junction-Ambient [4]		$R_{\theta JA}$	50	℃/W
Thermal Resistance from Junction-Case [4]		$R_{\theta JC}$	22	
Operating Junction & Storage Temperature Range		T_J, T_{STG}	150, -55~150	℃

Notes:

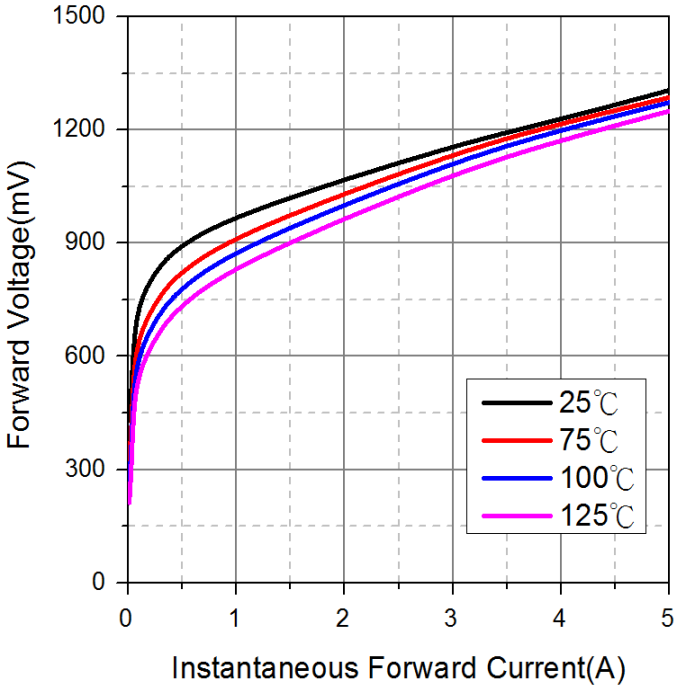
1. Pulse Test: Pulse Width=300μs, Duty Cycle≦2%.
2. I_F=0.5A, I_R =1A, I_{RR}=0.25A.
3. Measured at 1MHz and applied reverse voltage of 5V D.C.
4. Mounted on P.C.B. with 1inch^2 copper pad areas

RATINGS AND CHARACTERISTIC CURVES

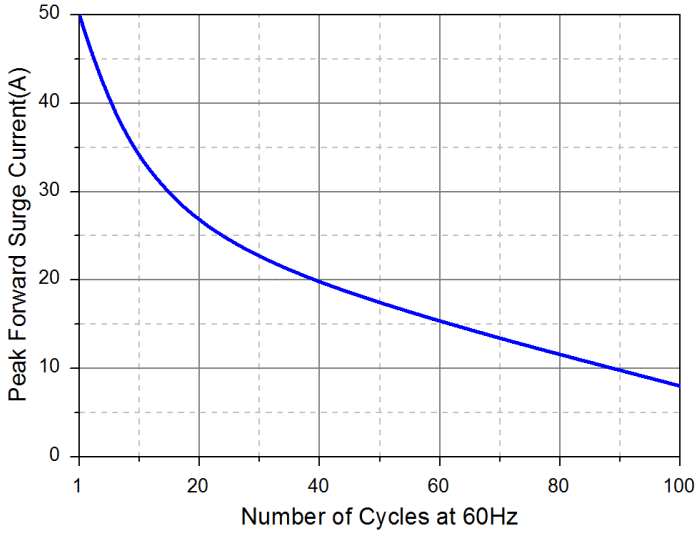
Typical Forward Current Derating Curve



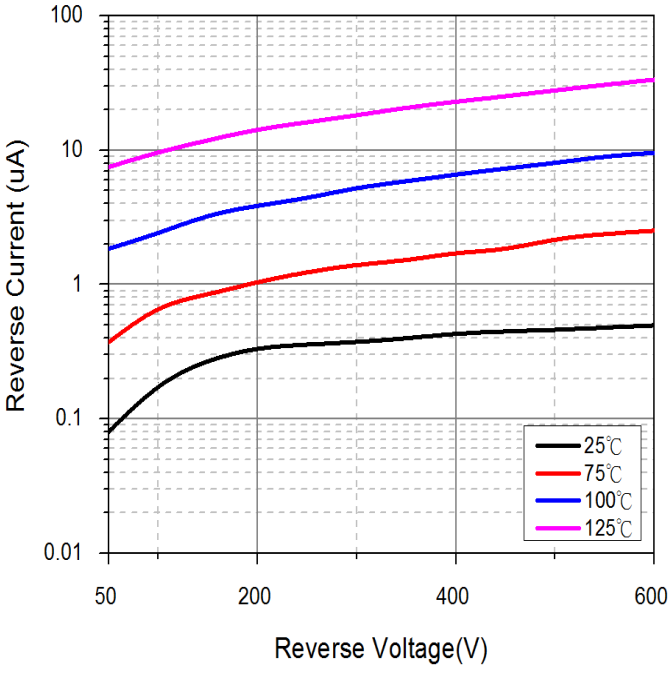
Typical Forward Characteristic



Maximum Non-Repetitive Forward Surge Current



Typical Reverse Characteristic



Typical Junction Capacitance