Elektronische Bauelemente

SUF206B

Voltage 800 V 2.0 Amp

Surface Mount Super Fast Recovery Rectifiers

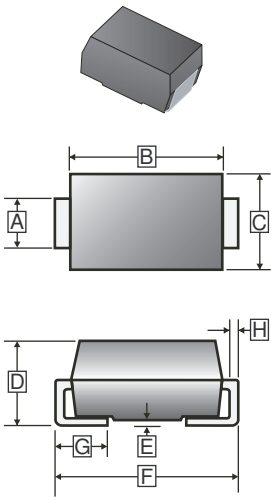
RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

FEATURES

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Super Fast switching speed under 35ns

SMB



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.91	2.20	E	-	0.203
B	4.00	4.70	F	5.08	5.59
C	3.25	3.94	G	0.75	1.52
D	2.11	2.44	H	0.15	0.305

MECHANICAL DATA

- Case: Molded plastic SMB
- Epoxy: UL 94V-0 rate flame retardant
- Polarity: Color band denotes cathode
- Mounting position: Any
- Weight: 0.093 gram

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, de-rate current by 20%.)

Parameter		Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	800	V
Maximum RMS Voltage		V_{RMS}	560	V
Maximum DC Blocking Voltage		V_{DC}	800	V
Maximum Average Forward Rectified Current@ T_A=110℃		I_F	2	A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	60	A
Maximum Instantaneous Forward Voltage @ 2A		V_F	2.2	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_A=25℃	I_R	5	μA
	T_A=125℃		100	
Maximum Reverse Recovery Time [1]		T_{RR}	35	nS
Typical Thermal Resistance[3]		$R_{\theta JA}$	20	℃/W
Typical Junction Capacitance [2]		C_J	25	pF
Operating & Storage Temperature		T_J,T_{STG}	-65~150	℃

Notes:

1. Reverse Recovery Time test condition：I_F=0.5A, I_R=1A, I_{RR}=0.25A
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
3. Thermal Resistance junction to Ambient.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

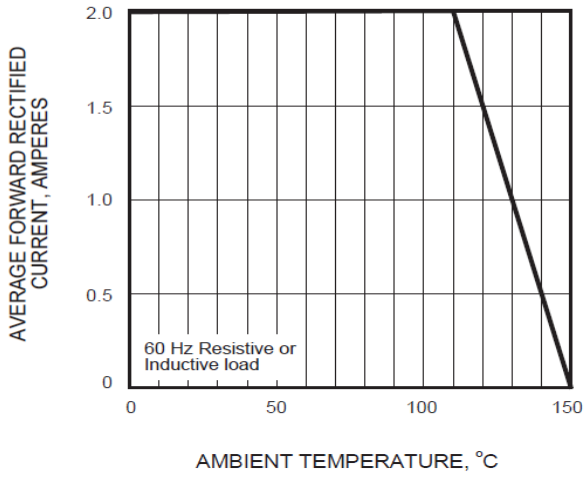

FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

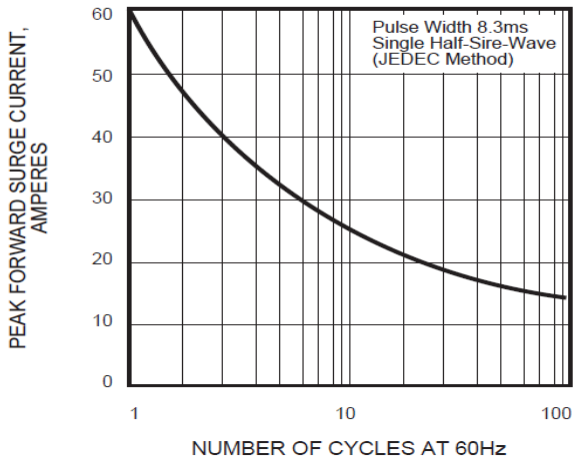

FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

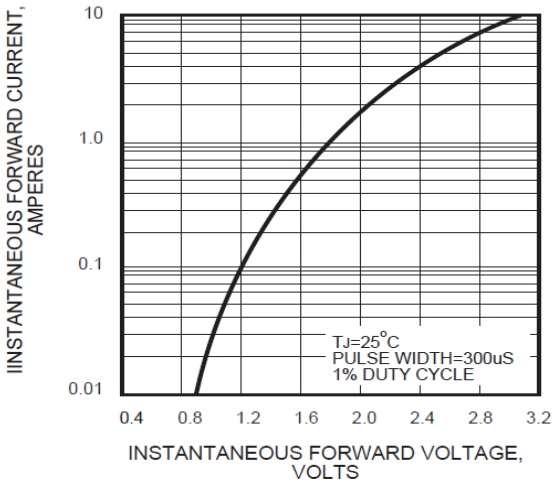

FIG.4 - TYPICAL REVERSE CHARACTERISTICS

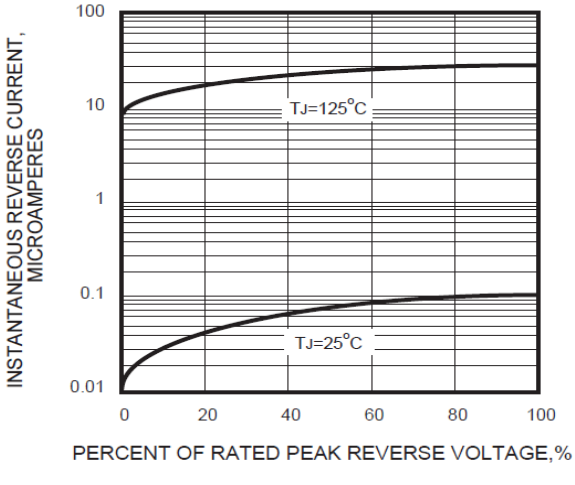

FIG.5 - TYPICAL JUNCTION CAPACITANCE