Elektronische Bauelemente

SR1060DE

VOLTAGE 60 V

10.0 Amp Schottky Barrier Rectifiers

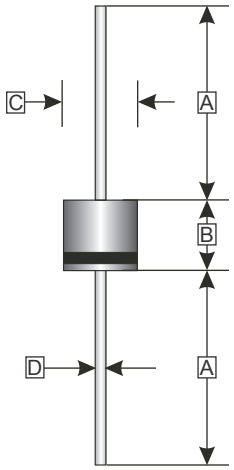
RoHS compliant product

A suffix of "-C" specifies halogen free

FEATURES

- Metal of silicon rectifier , majority carrier conduction
- Guard ring for transient protection
- Low power loss, high efficiency
- Low forward voltage drop
- High current capability
- High surge capacity
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

R-6



REF.	Millimeter	
	Min.	Max.
A	25.4 REF	
B	8.6	9.1
C	8.6	9.1
D	1.2	1.3

MECHANICAL DATA

- Plastic package has UL flammability classification 94V-0
- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: As Marked
- Mounting position: Any
- Weight: 2.1 grams (Approximately)

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%.

TYPE NUMBER	SYMBOL	VALUES	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Rectified Current @ T_C = 95°C	$I_{(AV)}$	10	A
Peak Forward Surge Current, 8.3 ms single half sine-wave Supe rimposed on rated load (JEDEC method)	I_{FSM}	200	A
Peak Forward Voltage (I_F = 10 Amps DC) (Note 1)	V_F	0.7	V
Maximum DC Reverse Current at Rated DC T_J = 25°C	I_R	0.5	mA
Blocking Voltage T_J = 100°C		50	mA
Typical Junction Capacitance (Note 2)	C_J	450	pF
Typical Thermal Resistance (Note 3)	$R_{\theta JC}$	3.0	°C / W
Operating & Storage Temperature Range	T_J, T_{STG}	-55 ~ +150	°C

NOTES:
1. 300us Pulse Width, 2% Duty Cycle.
2. Measured at 1.0 MHZ and applied reverse voltage of 4.0V DC.
3. Thermal Resistance Junction to Case.

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EELECTRICAL CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

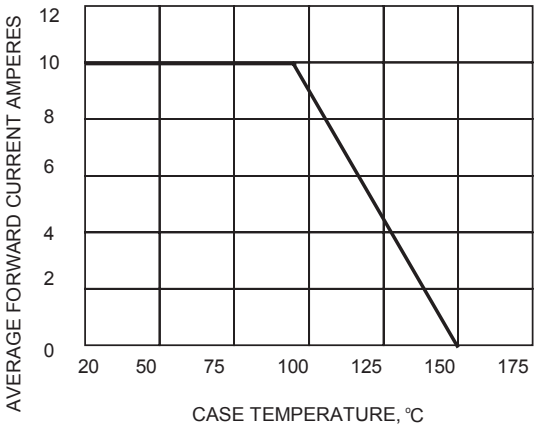

FIG.2-MAXIMUM NON-REPETITVE SURGE

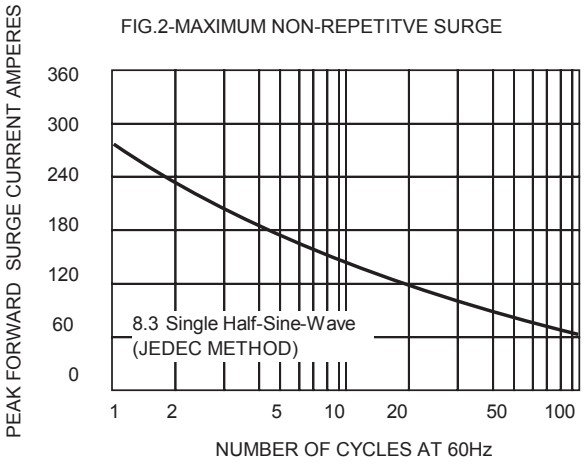

FIG.3-TYPICAL REVERSE CHARACTERISTICS

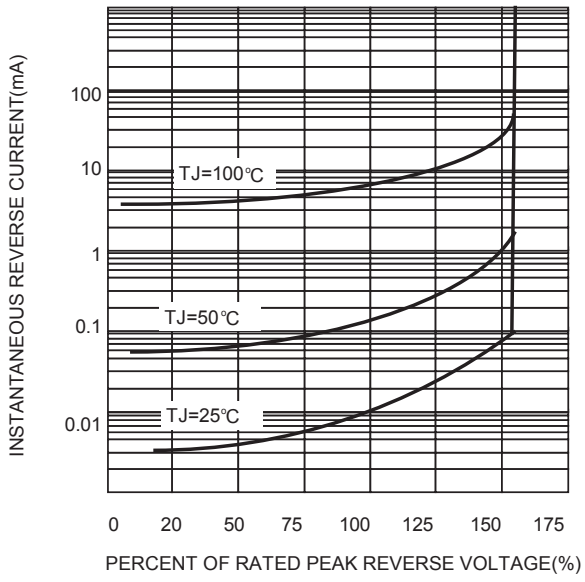

FIG.4-TYPICAL FORWARD CHARACTERISTICS

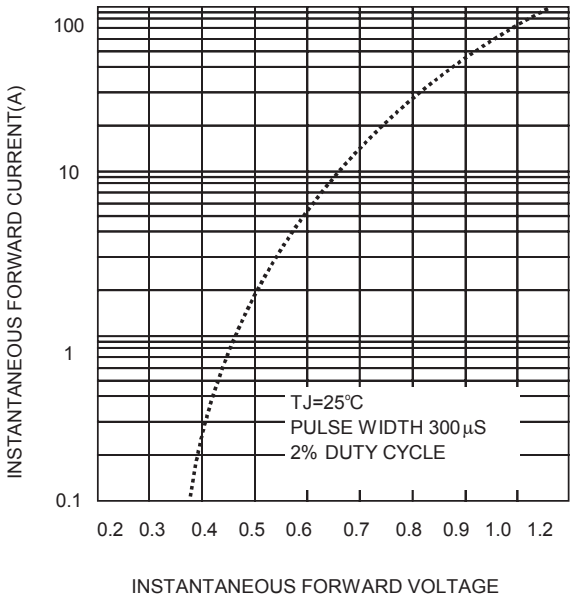

FIG.5-TYPICAL JUNCTION CAPACITANCE