Elektronische Bauelemente

SR5200

VOLTAGE 200 V

5.0 Amp Schottky Barrier Rectifiers

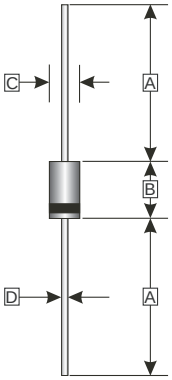
RoHS Compliant Product

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

DO-27

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction



REF.	Millimeter	
	Min.	Max.
A	25.4 (TYP)	
B	7.20	9.50
C	4.80	5.60
D	1.10	1.30

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-1 rate flame retardant
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: As Marked
- Mounting position: Any
- Weight: 1.10 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%.

Parameter		Ratings	Unit
Maximum Recurrent Peak Reverse Voltage		200	V
Working Peak Reverse Voltage		200	V
Maximum DC Blocking Voltage		200	V
Maximum Average Forward Rectified Current See Fig. 1		5	A
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)		120	A
Maximum Instantaneous Forward Voltage	IF = 5 Amps, T_A = 25°C	0.92	V
	IF = 5 Amps, T_A = 125°C	0.76	
Maximum DC Reverse Current at Rated DC Blocking Voltage (Note 3)	T_A = 25°C	0.05	mA
	T_A = 125°C	8	
Typical Junction Capacitance (Note 1)		200	pF
Typical Thermal Resistance $R_{\theta JL}$ (Note 2)		10	°C /W
Operating Temperature Range T_J		-50 ~ +150	°C
Storage Temperature Range T_{STG}		-65 ~ +175	°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Lead.
3. Pulse test: 300us pulse width, 1% duty cycle

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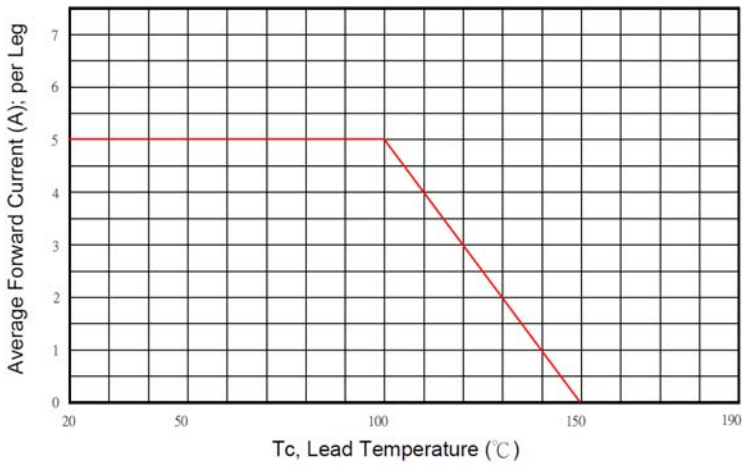
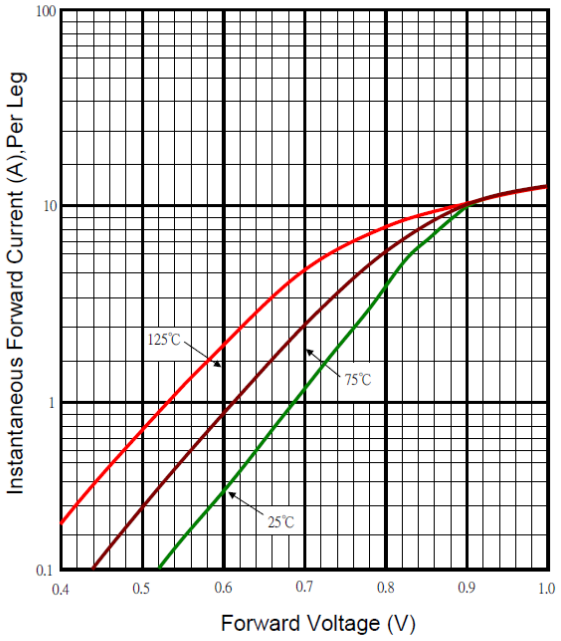
RATINGS AND CHARACTERISTIC CURVES

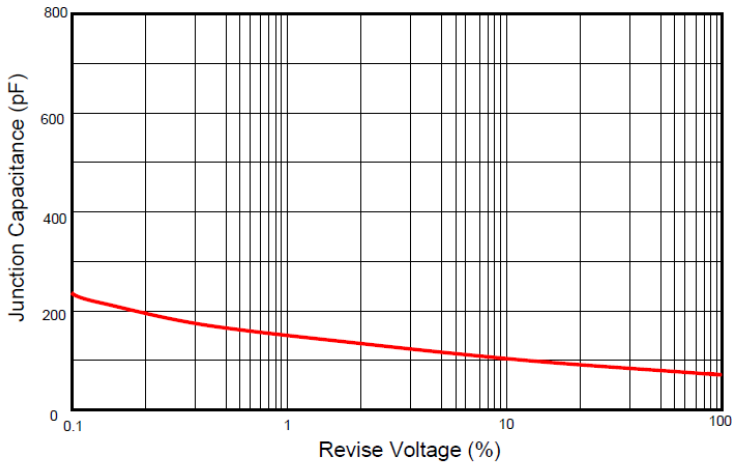
Typical Forward Current Derating Curve



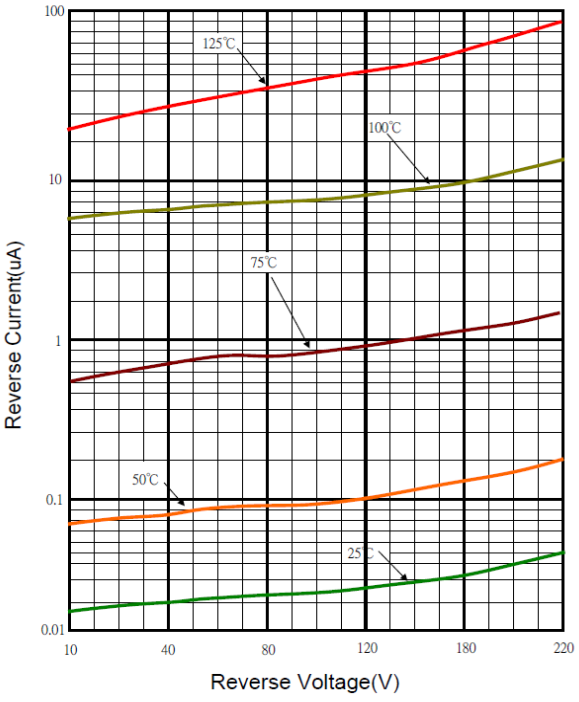
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current