Elektronische Bauelemente

SR2150

VOLTAGE 150 V

2.0 Amp Schottky Barrier Rectifiers

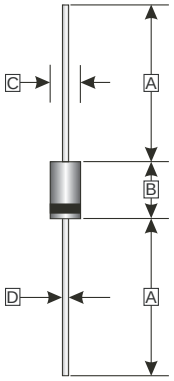
RoHS Compliant Product

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

DO-15

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	5.80	7.62
C	2.60	3.60
D	-	0.90

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: 0.093 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	VALUES	UNITS
Maximum Recurrent Peak Reverse Voltage	150	V
Working Peak Reverse Voltage	150	V
Maximum DC Blocking Voltage	150	V
Maximum Average Forward Rectified Current See Fig. 1	2	A
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)	50	A
Maximum Instantaneous Forward Voltage (IF = 2 Amps, T_A = 25°C)	0.85	V
Maximum Instantaneous Forward Voltage (IF = 2 Amps, T_A = 125°C)	0.78	
Maximum DC Reverse Current at Rated DC T_A = 25°C	0.2	mA
Blocking Voltage (Note 3) T_A = 125°C	2	
Typical Junction Capacitance (Note 1)	50	pF
Typical Thermal Resistance $R_{\theta JL}$ (Note 2)	10	°C /W
Voltage Rate of Chance (Rated V_R)	10000	V/us
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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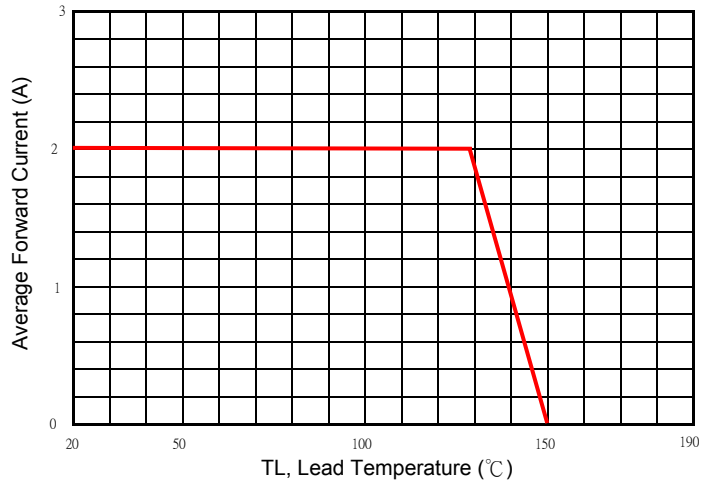
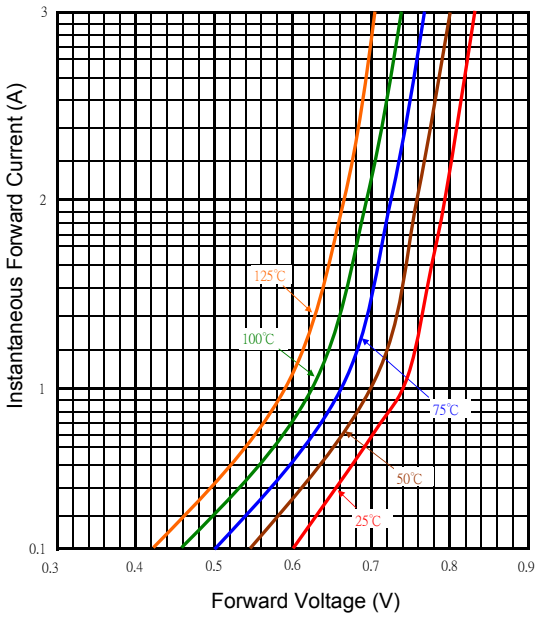
RATINGS AND CHARACTERISTIC CURVES

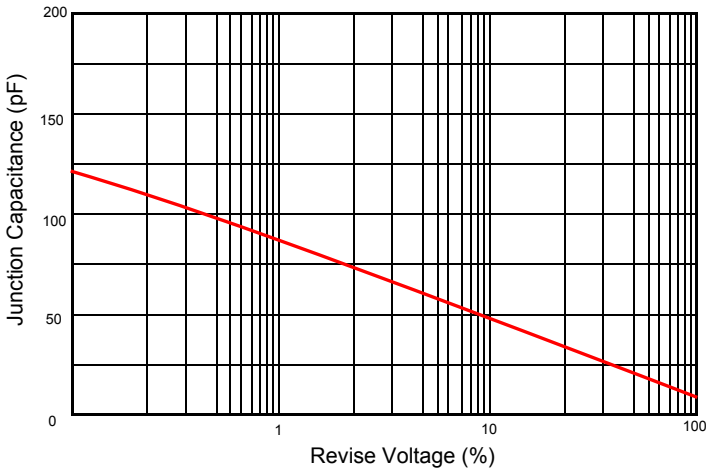
Typical Forward Current Derating Curve



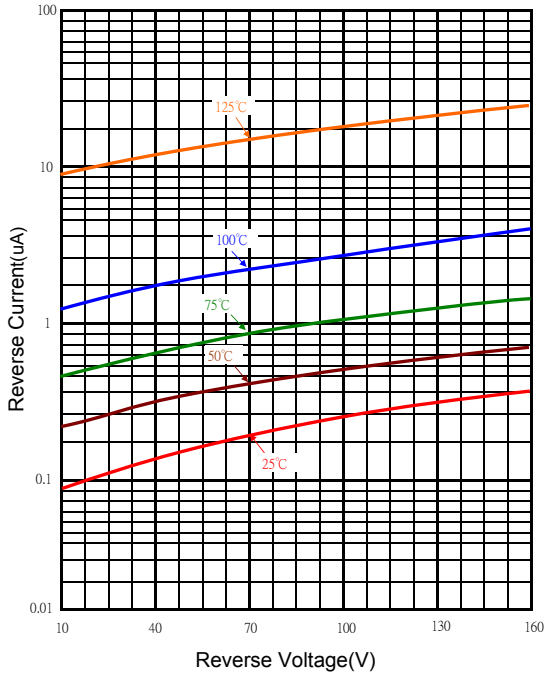
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current