

RoHS Compliant Product

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

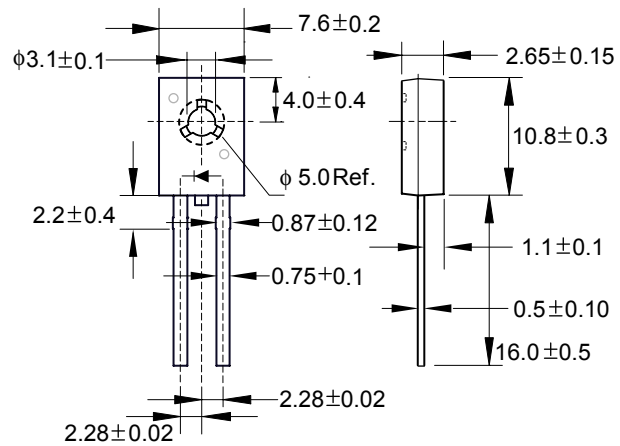
TO-126A

FEATURES

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

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: As Marked
- * Mounting position: Any
- * Weight: 1.7 grams(Approximately)



Dimensions in millimeter

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%.

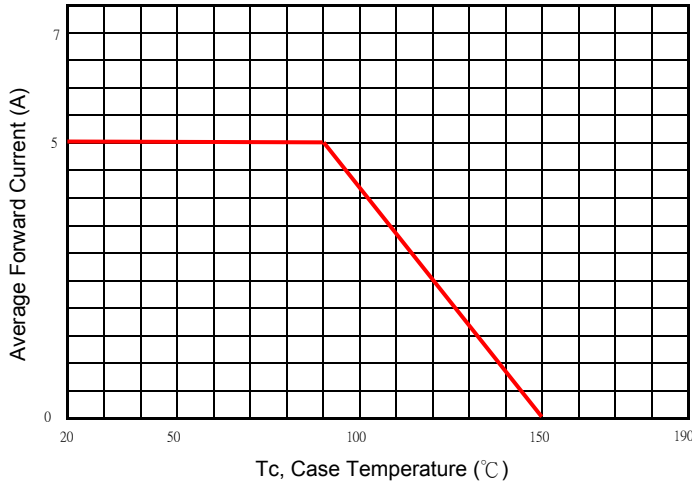
TYPE NUMBER	SYMBOL	SDR5200S	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	V
Working Peak Reverse Voltage	V_{RSM}	200	V
Maximum DC Blocking Voltage	V_{DC}	200	V
Maximum Average Forward Rectified Current	I_F	5	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	100	A
Maximum Instantaneous Forward Voltage ($I_F = 5$ Amps, $T_F = 25^\circ\text{C}$, per leg)	V_F	0.90	V
Maximum Instantaneous Forward Voltage ($I_F = 5$ Amps, $T_F = 125^\circ\text{C}$, per leg)		0.78	
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a = 25^\circ\text{C}$ $T_a = 125^\circ\text{C}$	I_R	0.02 5	mA
Typical Junction Capacitance (Note 1)	C_J	120	pF
Typical Thermal Resistance θ_{JA} (Note 2)	$R_{\theta JA}$	45	$^\circ\text{C/W}$
Voltage Rate Of Change (Rated V_R)	dv/dt	10000	V/us
Operating Temperature Range	T_J	-50 ~ +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 ~ +175	$^\circ\text{C}$

NOTES:

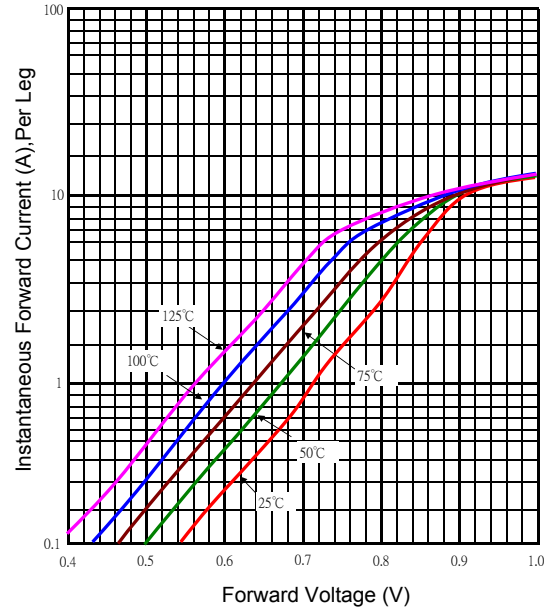
1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES

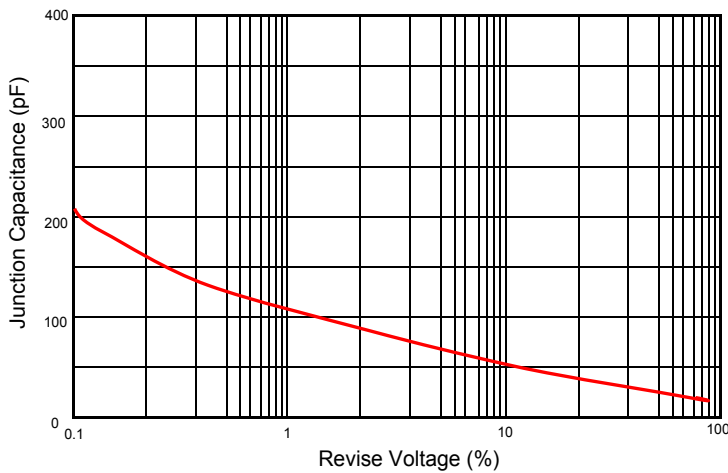
Typical Forward Current Derating Curve



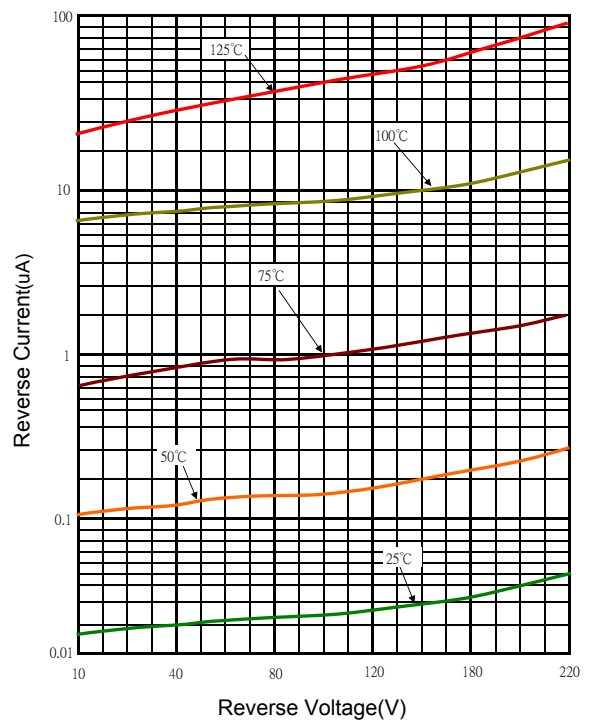
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

