

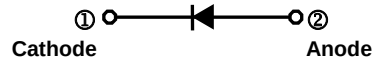
RoHS Compliant Product
A suffix of "-C" specifies halogen-free and RoHS Compliant

FEATURES

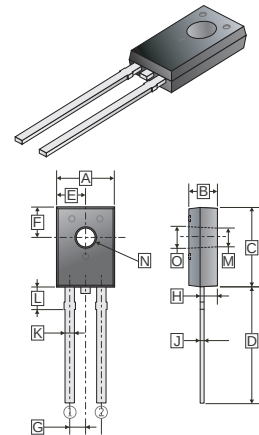
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

PACKAGING INFORMATION

- Polarity: as marked.
- Case: molded plastic
- Epoxy: UL94-V0 rate flame retardant
- Lead: lead solderable per MIL-STD-202, method 208 guaranteed
- Mounting position: Any
- Weight: 1.7 grams (Approximately)



TO-126AF



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	7.80	8.20	H	1.80	2.20
B	3.00	3.40	J	0.40	0.60
C	10.75	11.25	K	0.65	0.85
D	14.90	15.10	L	1.80	2.54
E	-	-	M	3.25	REF.
F	3.95	4.25	N	3.00	3.3
G	2.18	2.38	O	3.05	REF.

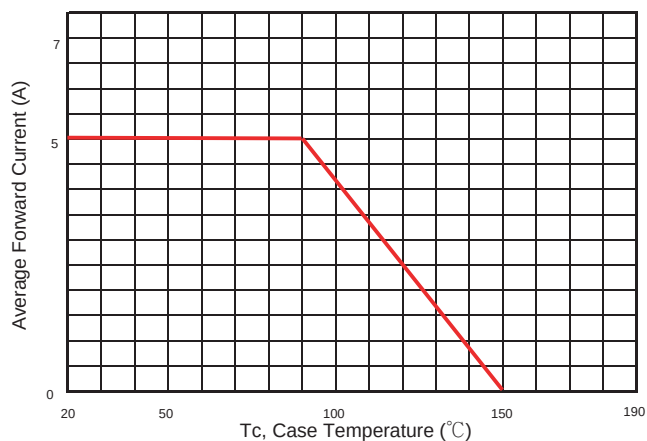
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

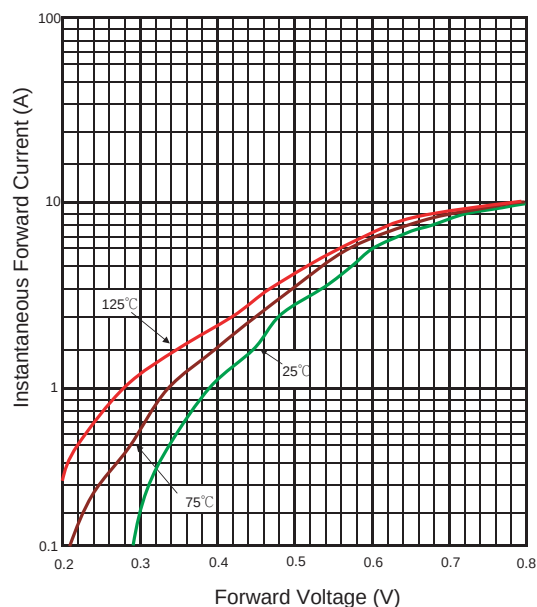
PARAMETERS	SYMBOL	SDR560SF	UNITS	TESTING CONDITIONS
Recurrent Reverse Voltage (Max.)	V_{RRM}	60	V	
RMS Voltage (Max.)	V_{RSM}	60	V	
Reverse Voltage (Max.)	V_{DC}	60	V	
Forward Rectified Current (Max.)	I_F	5	A	
Peak Forward Surge Current	I_{FSM}	140	A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)
Maximum Instantaneous Forward Voltage	V_F	0.65	V	($I_F = 5$ Amps, $T_A = 25^\circ\text{C}$)
		0.55	V	($I_F = 5$ Amps, $T_A = 125^\circ\text{C}$)
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.2	mA	$T_A = 25^\circ\text{C}$
		10		$T_A = 125^\circ\text{C}$
Typical Thermal Resistance	$R_{\theta JA}$	78	$^\circ\text{C/W}$	Junction to Ambient
Typical Junction Capacitance	C_J	350	pF	Measured at 1MHz and applied reverse voltage of 5.0V D.C.
Voltage Rate Of Change (Rated V_R)	dv / dt	10000	V / us	
Operating and Storage Temperature Range	T_J, T_{STG}	-50 ~ +150, -65 ~ 175	$^\circ\text{C}$	

RATINGS AND CHARACTERISTIC CURVES

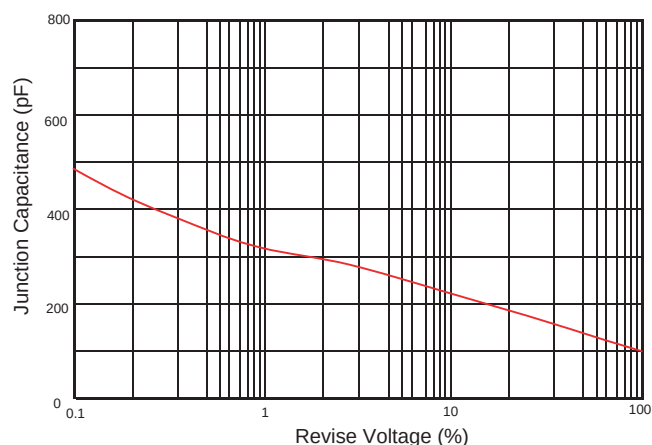
Typical Forward Current Derating Curve



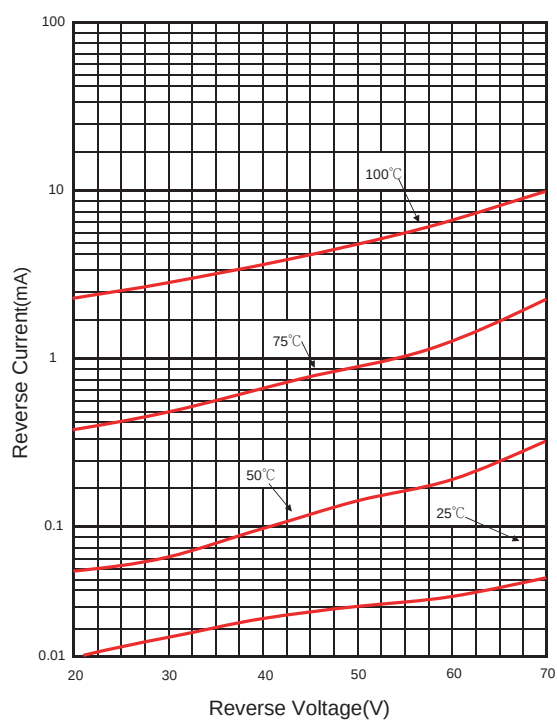
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non- Repetitive Forward Surge Current

