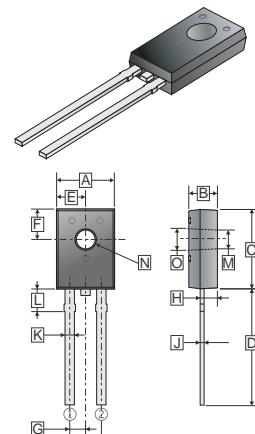


RoHS Compliant Product  
A suffix of “-C” specifies halogen-free and RoHS Compliant

## FEATURES

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

TO-126AF



## 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)



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.

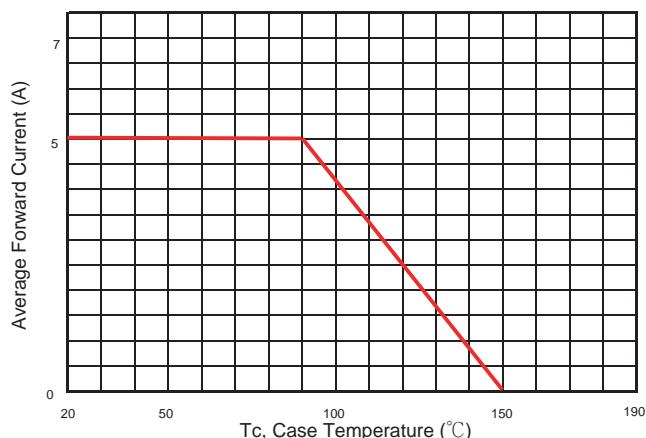
Single phase half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

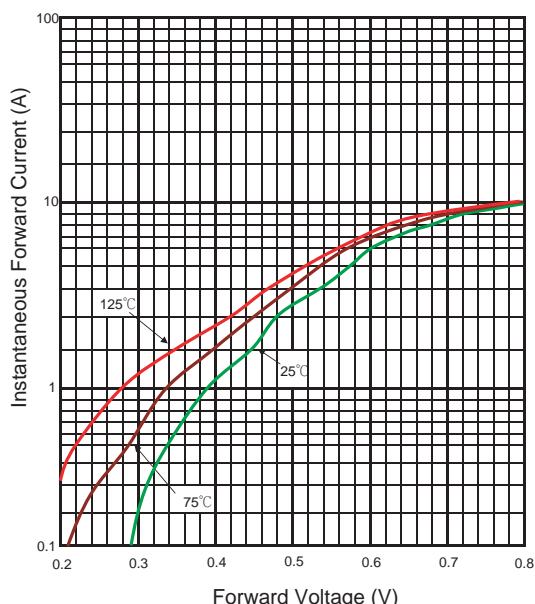
PARAMETERS	SYMBOL	SDR560SF	UNITS	TESTING CONDITIONS
Recurrent Reverse Voltage (Max.)	$V_{RRM}$	60	V	
RMS Voltage (Max.)	$V_{RSM}$	60	V	
Reverse Voltage (Max.)	$V_{DC}$	60	V	
Forward Rectified Current (Max.)	$I_F$	5	A	
Peak Forward Surge Current	$I_{FSM}$	140	A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)
Maximum Instantaneous Forward Voltage	$V_F$	0.65	V	( $I_F = 5$ Amps, $T_A = 25^\circ C$ )
		0.55	V	( $I_F = 5$ Amps, $T_A = 125^\circ C$ )
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.2	mA	$T_A=25^\circ C$
		10	mA	$T_A=125^\circ C$
Typical Thermal Resistance	$R_{\theta JA}$	78	°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	°C	

## RATINGS AND CHARACTERISTIC CURVES

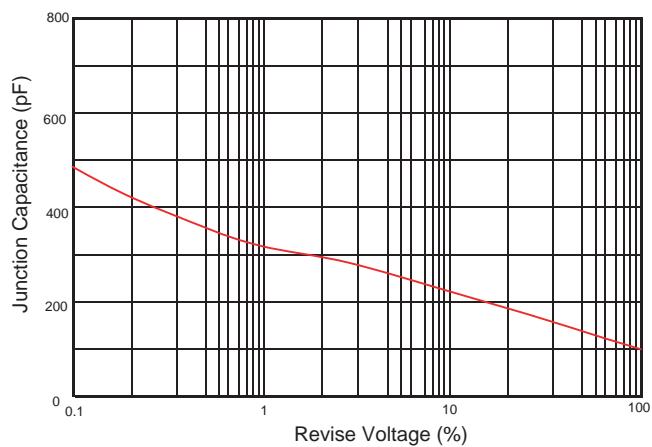
Typical Forward Current Derating Curve



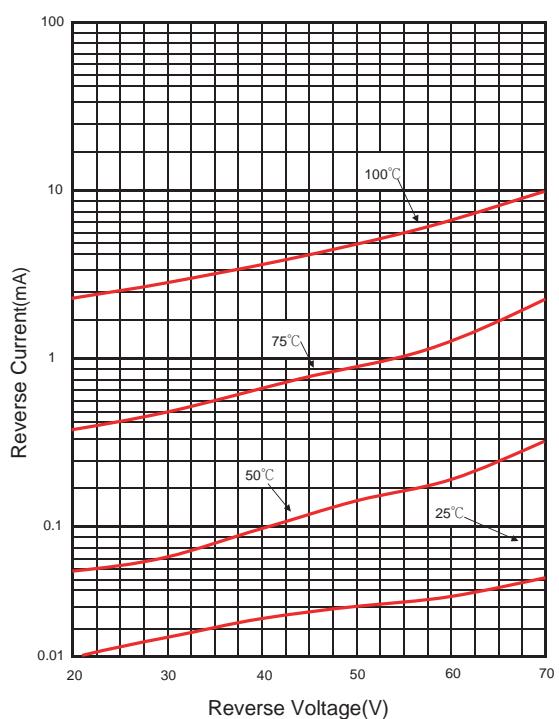
Typical Forward Characteristic



Typical Junction Capacitance



Typical Reverse Characteristic



Maximum Non-Repetitive Forward Surge Current

