

MAXIMUM RATINGS			
RATING	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage and DCBlocking VoltageSSR1008M, SSR1008ZSSR1009M, SSR1009ZSSR1010M, SSR1010Z	V _{RRM} V _{RWM} V _R	80 90 100	Volts
Average Rectified Output Current ^{3/} (Resistive Load, 60Hz, Sine Wave, TA=25°C)	I ₀	10	Amps
Peak Surge Current $\frac{3}{}$ (8.3 ms Pulse, Half Sine Wave, superimposed on I ₀ , allow junction to reach equilibrium between pulses, TA=25 °C)	I _{FSM}	200	Amps
Operating and Storage Temperature	T _{OP} & T _{STG}	-65 to +175	°C
Maximum Thermal Resistance ^{3/} Junction to Case	R _{θJC}	1.7	°C/W

NOTES: <u>1</u>/ For ordering information, price, and availability- Contact Factory.

- <u>2</u>/ Screened to MIL-PRF-19500.
- $\underline{3}$ / For optimal performance, connect leads 2 & 3 together.

NOTE: All specifications are subject to change without notification.
SCD's for these devices should be reviewed by SSDI prior to release.DATA SHEET #: RS0205K

DOC



SSR1008M, SSR1008Z SSR1009M, SSR1009Z SSR1010M, SSR1010Z

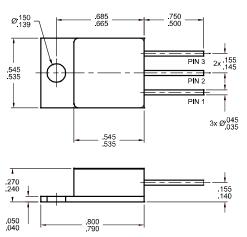
ELECTRICAL CHARACTERISTICS (Per Leg)			
CHARACTERISTICS	SYMBOL	MAXIMUM	UNIT
Instantaneous Forward Voltage Drop ($I_F = 1 \text{ Adc}, T_A = 25 \text{ °C}, \text{ Pulse}$) ($I_F = 5 \text{ Adc}, T_A = 25 \text{ °C}, \text{ Pulse}$) ($I_F = 10 \text{ Adc}, T_A = 25 \text{ °C}, \text{ Pulse}$)	$\begin{array}{c} V_{F1} \\ V_{F2} \\ V_{F3} \end{array}$	0.57 0.72 0.8	Vdc
Instantaneous Forward Voltage Drop $T_A = 100^{\circ}C$ $(I_F = 10 \text{ Adc}, \text{ Pulse})$ $T_A = -55^{\circ}C$	V _{F4} V _{F5}	0.70 0.90	Vdc
Reverse Leakage Current (Rated V_R , $T_A = 25$ °C, Pulse)	I _{R1}	100	μΑ
Reverse Leakage Current (Rated V_R , $T_A = 100$ °C, Pulse)	I _{R2}	5	mA
Junction Capacitance ($V_R = 10 \text{ Vdc}, T_A = 25 \text{ °C}, f = 1 \text{ MHz}$)	CJ	400	pF

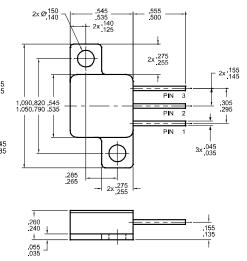
Case Outlines- TO-254 and TO-254Z-

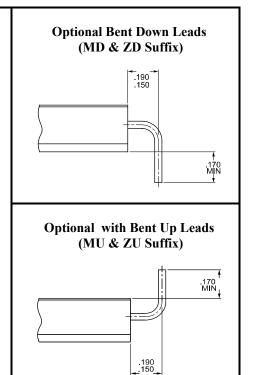
PIN OUT: Rectifier Configuration ^{4/} PIN 1- CATHODE PIN 2- ANODE PIN 3- ANODE

TO-254Z (Z Suffix)

TO-254 (M Suffix)







For information on curves, contact the Factory Representative for Engineering Assistance.

NOTES: <u>4</u>/ Pins 2 and 3 must be externally connected for best performance.

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