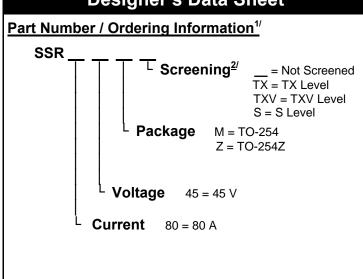


Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, ČA 90638 Phone: (562) 404-4474 * Fax: (562) 404-1773 ssdi@ssdi-power.com * www.ssdi-power.com

Designer's Data Sheet



SSR8045M SSR8045Z

80 AMP SCHOTTKY RECTIFIER 45 VOLTS

FEATURES:

- PIV: 45 V
- Low reverse leakage
- Low forward voltage drop
- Guard ring for overvoltage protection
- Isolated Hermetically sealed package
- Available in glass or ceramic seal packages
- Custom lead forming available
- Eutectic die attach
- 175°C operating junction temperature
- TX, TXV, and S level screening available

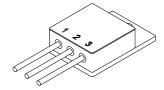
MAXIMUM RATINGS 3/	Symbol	Value	Units
Peak Repetitive Reverse and DC Blocking Voltage	V _{RRM} V _{RWM} V _R	45	Volts
Average Rectified Forward Current (Resistive load, 60 Hz, sine wave, $T_C = 55^{\circ}C$) $^{4/}$	Io	80	Amps
Peak Surge Current (8.3 ms pulse, half sine wave, allow junction to reach equilibrium between pulses, $T_A = 25^{\circ}C$) $\frac{4}{}$	I _{FSM}	600	Amps
Operating & Storage Temperature	T _{OP} & T _{stg}	-65 to +175	°C
Maximum Thermal Resistance (Junction to Case) 4/	R _{θJC}	0.50	°C/W

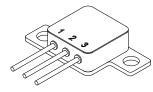
NOTES:

- 1/ For ordering information, price, and availability contact factory.
- 2/ Screening based on MIL-PRF-19500. Screening flows available on request.
- 3/ Unless otherwise specified, all electrical characteristics @25°C.
- 4/ Both anode legs together.

TO-254 (M)

TO-254Z (Z)





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

DATA SHEET #: RS0004C

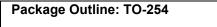
DOC



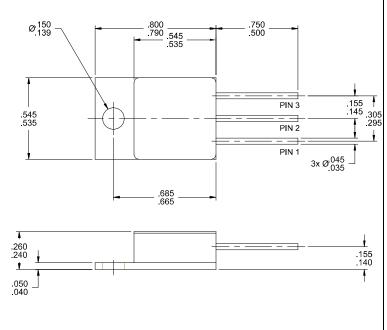
SSR8045M SSR8045Z

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ELECTRICAL CHARACTERISTICS 3/4/		Symbol	Min	Тур	Max	Units
Instantaneous Forward Voltage Drop (T _A =25°C, 300-500μsec pulse)	$I_F = 20 \text{ A}$ $I_F = 40 \text{ A}$ $I_F = 80 \text{ A}$	V_{F2}	- - -	0.45 0.55 0.65	0.53 0.65 0.90	V _{DC}
Instantaneous Forward Voltage Drop (T _A = -55°C, 300-500µsec pulse)	I _F = 40 A	V_{F4}	-	0.60	0.70	V _{DC}
Reverse Leakage Current (Rated V _R , T _A = 25°C, 300μsec pulse minimum)		I _{R1}	-	50	400	uA
Reverse Leakage Current (Rated V _R , T _A = 100°C, 300μsec pulse minimum)		I _{R2}	-	10	30	mA
Junction Capacitance $(V_R = 10V, f = 1MHz, T_A = 25^{\circ}C)$		CJ	-	2000	2200	pF

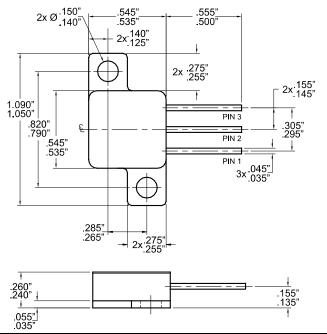


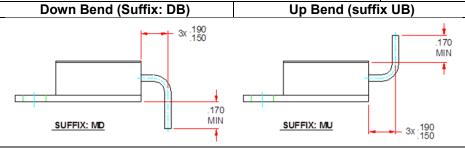
PIN OUT: PIN 1: CATHODE, PIN 2+3: ANODE



Package Outline: TO-254Z

PIN OUT: PIN 1: CATHODE, PIN 2+3: ANODE





Optional Lead Bend Configurations.

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