

Designer's Data Sheet

Part Number /Ordering Information ^{1/}

SSR4045 CT M TX

Screening ^{2/}: _ = Not Screened
 TX = TX Level
 TXV = TXV Level
 S = Space Level

Lead Bend: _ = Straight
 UB = Up Bend
 DB = Down Bend

Package: M = TO-254
 Z = TO-254Z

Configuration:
 CT = Common Cathode
 CA = Common Anode
 D = Doubler

NOTES:

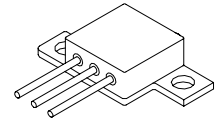
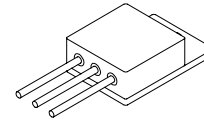
- 1/ For Ordering Information, Price, and Availability Contact Factory.
- 2/ Screening per MIL-PRF-19500.
- 3/ Both Legs Tied Together. For Doubler Configuration, Value Shall Be Half of the Value Shown, Tested per Leg.
- 4/ Both Legs Tied Together. For Doubler Configuration, Tested Both Dies in Series.
- 5/ Per Leg

**SSR4045CTM
 SSR4045CTZ**

**40 AMP
 45VOLTS
 POSITIVE CENTERTAP
 SCHOTTKY
 RECTIFIER**

TO-254

TO-254Z



FEATURES:

- Low Reverse Leakage
- Low Forward Voltage Drop
- Guard Ring for Overvoltage Protection
- Isolated Hermetically Sealed Power Package
- Available in Glass or Ceramic Seal Packages
- Eutectic Die Attach
- 175°C Operating Temperature
- TX, TXV and Space Level Screening Available

Maximum Ratings	SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage	V _{RRM} V _{RWM} V _R	45	Volts
Average Rectified Forward Current (Resistive load, 60Hz, Sine Wave, T _C = 55°C) ^{3/}	I _o	40	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, T _A = 25°C) ^{3/}	I _{FSM}	600	Amps
Operating and Storage Temperature	T _{OP} & T _{stg}	-65 TO +175	°C
Maximum Thermal Resistance Junction to Case ^{4/} Junction to Case ^{5/}	R _{θJC}	0.9 1.8	°C/W

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

DATA SHEET # : RS0031C

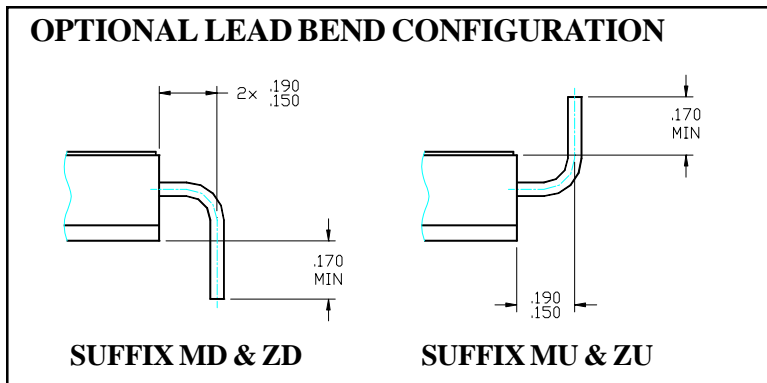
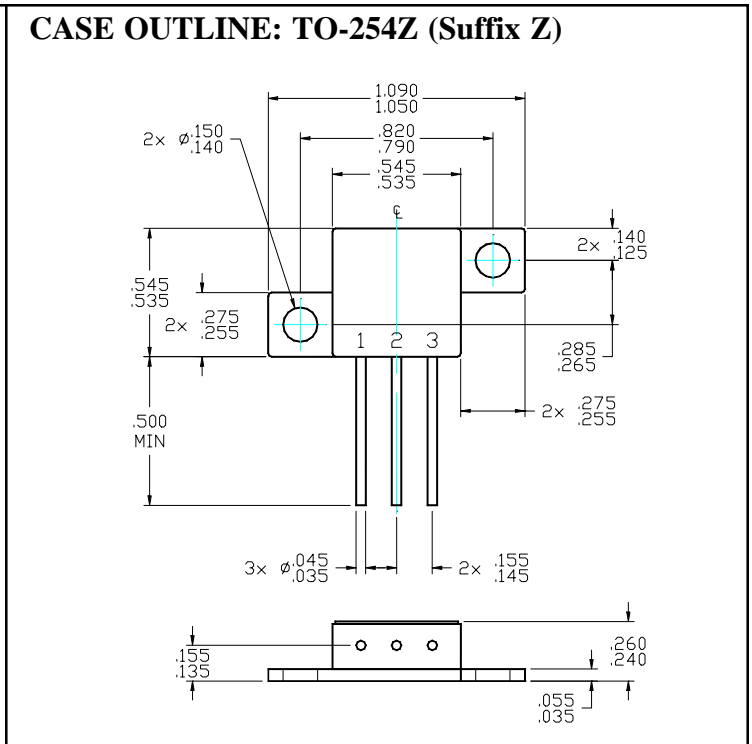
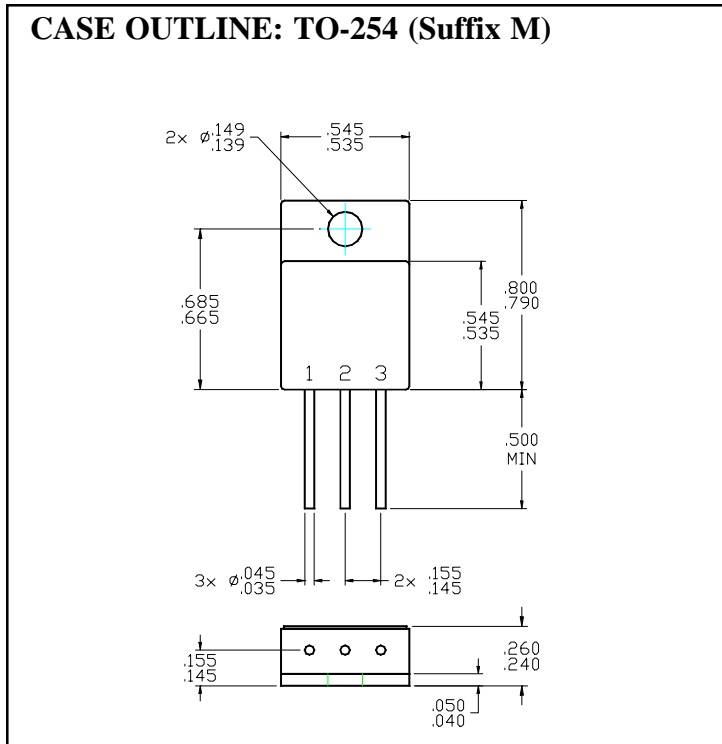
SSR4045CTM SSR4045CTZ



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Electrical Characteristics ^{5/}		SYMBOL	MIN	MAX	UNITS
Instantaneous Forward Voltage Drop (T _A = 25°C, 300 - 500 μsec pulse)	I _F = 5A	V _{F1}	-	0.50	Vdc
	I _F = 10A	V _{F2}	-	0.55	
	I _F = 20A	V _{F3}	-	0.70	
Instantaneous Forward Voltage Drop (I _F = 10A, T _A = -55°C, 300 - 500μsec pulse)		V _{F4}	-	0.62	Vdc
Reverse Leakage Current (Rated V _R , T _A = 25°C, 300μs pulse minimum)		I _{R1}	-	200	μA
Reverse Leakage Current (Rated V _R , T _A = 100°C, 300μs pulse minimum)		I _{R2}	-	15	mA
Junction Capacitance (V _R = 10V, f = 1MHz, T _A = 25°C)		C _J	-	800	pF



PIN ASSIGNMENT

CODE	FUNCTION	PIN 1	PIN 2	PIN 3
CT	Common Cathode	Anode	Cathode	Anode
CA	Common Anode	Cathode	Anode	Cathode
D	Doubler	Cathode	AC	Anode