

TECHNICAL DATA DATA SHEET 6080, REV. A

HERMETIC POWER SCHOTTKY RECTIFIER 175°C Maximum Operation Temperature

DESCRIPTION: A 250-VOLT, 7.5/15 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC TO-254 PACKAGE.

MAXIMUM RATINGS

ALL RATINGS ARE @ $T_C = 25$ °C UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	250	Volts
MAXIMUM DC OUTPUT CURRENT (@ T _C =100 °C) (Single, Doubler)	lo	7.5	Amps
MAXIMUM DC OUTPUT CURRENT (@ Tc=100 °C) (Common Cathode, Common Anode)	lo	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine) per leg	I _{FSM}	75	Amps
MAXIMUM JUNCTION CAPACITANCE (V _r =10V)	Ст	100	pF
MAXIMUM THERMAL RESISTANCE (per leg)	R _в јс	5.37	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE		-65 to + 175	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C

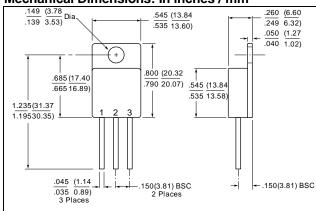
ELECTRICAL CHARACTERISTICS

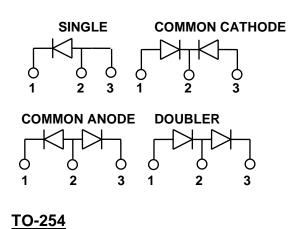
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 7.5 Amps)			
T _J = 25 °C	V _f	0.98	Volts
T _J = 125 °C		0.83	
MAXIMUM REVERSE CURRENT (Ir @ 250 V PIV)			
T _J = 25 °C	l _r	0.2	mA
T _J = 125 °C		1.0	

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Mechanical Dimensions: In inches / mm

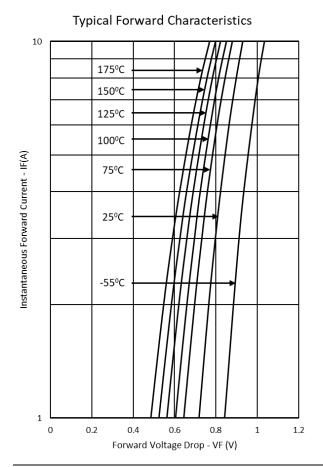


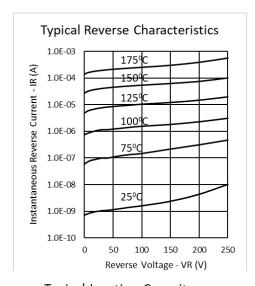


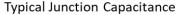
PINOUT TABLE

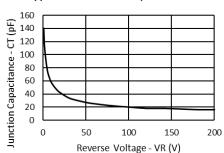
TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
DUAL RECTIFIER, COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
DUAL RECTIFIER, COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DUAL RECTIFIER, DOUBLER (D)	ANODE	CATHODE/ ANODE	CATHODE

Curves shown are for bare die only.





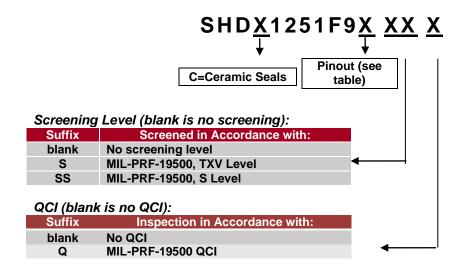




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