

TECHNICAL DATA DATA SHEET 4709, REV. A

HERMETIC POWER SCHOTTKY RECTIFIER 200°C Maximum Operation Temperature

DESCRIPTION: A 200-VOLT, 3/6 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	200	Volts
MAXIMUM DC OUTPUT CURRENT (@ T _C =100 ^O C) (Single, Doubler)	Io	3	Amps
MAXIMUM DC OUTPUT CURRENT (@ T _C =100 ^O C) (Common Cathode, Common Anode)	Io	6	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	55	Amps
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	Ст	60	pF
MAXIMUM THERMAL RESISTANCE	$R_{ heta JC}$	3.17	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE		-65 to + 200	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 200	°C

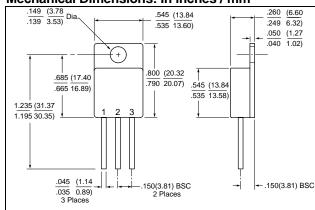
ELECTRICAL CHARACTERISTICS

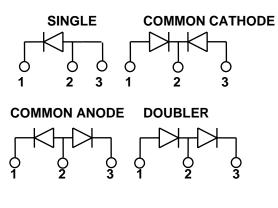
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 3 Amps)			
T _J = 25 °C	V_{f}	1.02	Volts
T _J = 125 °C		0.86	
MAXIMUM REVERSE CURRENT (I _r @ 200 V PIV)			
T _J = 25 °C	l _r	0.003	mA
T _J = 125 °C		0.2	

SENSITRON

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Mechanical Dimensions: In inches / mm





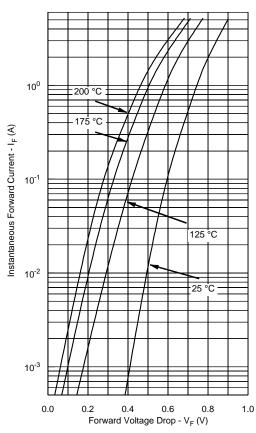
TO-254

PINOUT TABLE

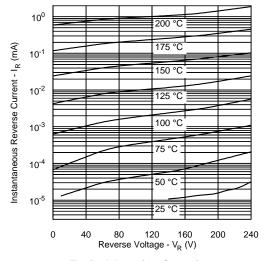
TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
DUAL RECTIFIER, COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
DUAL RECTIFIER, COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DUAL RECTIFIER, DOUBLER (D)	ANODE	CATHODE/ ANODE	CATHODE

Curves shown are for bare die only.

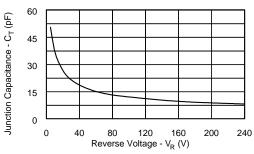
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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