

TECHNICAL DATA DATA SHEET 4712, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER 150°C Maximum Operation Temperature

DESCRIPTION: A 30-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	30	Volts
MAXIMUM DC OUTPUT CURRENT (@ T _C =100 ^O C) (Single, Doubler)	Io	7.5	Amps
MAXIMUM DC OUTPUT CURRENT (@ T _C =100 ^O C) (Common Cathode, Common Anode)	lo	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	140	Amps
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	550	pF
MAXIMUM THERMAL RESISTANCE	$R_{ heta JC}$	1.36	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C

ELECTRICAL CHARACTERISTICS

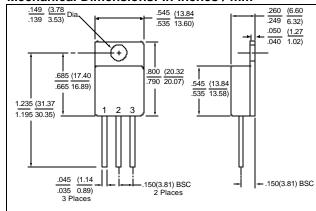
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 7.5 Amps)			
T _J = 25 °C	V_{f}	0.58	Volts
T _J = 125 °C		0.48	
MAXIMUM REVERSE CURRENT (I _r @ 30 V PIV)			
T _J = 25 °C	I _r	1	mA
T _J = 125 °C		50	

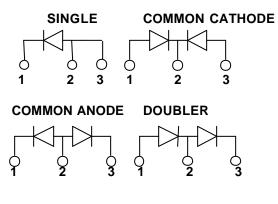
PIN 3

SENSITRON

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Mechanical Dimensions: In inches / mm





PIN 2

TO-254

PINOUT TABLE

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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						
DUAL RECTIFIER, DOUBLER (D)	ANODE	ANODE CATHODE/ ANODE					
Curves shown are for bare die only.							
Typical Forward Characteristics	Typical Reverse Characteristics						
10 ¹ 100 Contract C	Instantaneous Reverse Current $\frac{1}{10}$ (mA) 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	150 °C 125 °C 100 °C 75 °C 25 °C					
125 °C 125 °C 25 °C	0	10 20 30 Reverse Voltage - ½ (V) Typical Junction Capacitance	40 E e				
10-1	700 (P)	10 20 30 Reverse Voltage - V (V)	40				
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TECHNICAL DATA

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