

TECHNICAL DATA DATA SHEET 4720, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER 150°C Maximum Operation Temperature

DESCRIPTION: A 30-VOLT, 30/45 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)	lo	15	Amps
MAXIMUM DC OUTPUT CURRENT (@ T _C =100 ^O C) (Common Cathode, Common Anode)	lo	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	150	Amps
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	1100	pF
MAXIMUM THERMAL RESISTANCE (Single)	$R_{ heta JC}$	1.45	°C/W
MAXIMUM THERMAL RESISTANCE (Common Cathode, Common Anode, Doubler)	$R_{ heta JC}$	0.72	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C

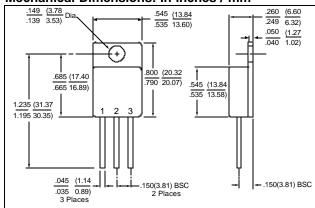
ELECTRICAL CHARACTERISTICS

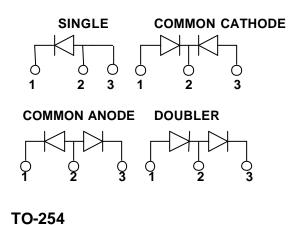
CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 15 Amps)				
	$T_J = 25 ^{\circ}C$	V_{f}	0.58	Volts
	T _J = 125 °C		0.48	
MAXIMUM REVERSE CURRENT (I _r @ 30 V PIV)				
	$T_J = 25 ^{\circ}C$	l _r	2	mA
	T _J = 125 °C		100	

SENSITRON

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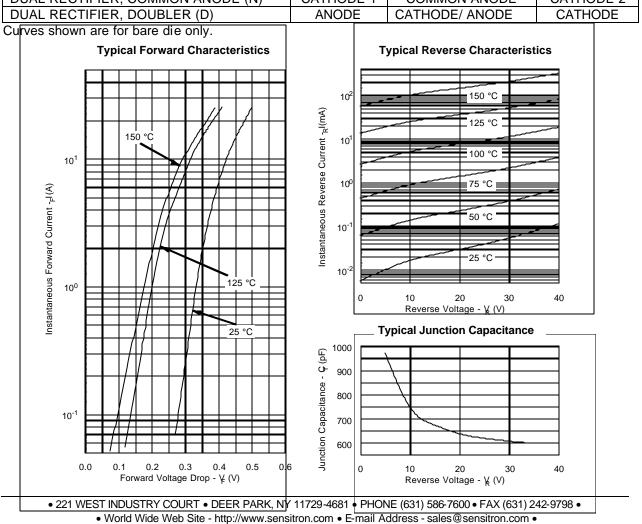
Mechanical Dimensions: In inches / mm





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





TECHNICAL DATA

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