

TECHNICAL DATA
DATA SHEET 4720, REV. A**HERMETIC POWER SCHOTTKY RECTIFIER**
175°C Maximum Operation Temperature

DESCRIPTION: A 30-VOLT, 30/45 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC TO-254 PACKAGE.

MAXIMUM RATINGSALL RATINGS ARE @ $T_C = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	30	Volts
MAXIMUM DC OUTPUT CURRENT (@ $T_C=100^\circ\text{C}$) (Single, Doubler)	I_O	15	Amps
MAXIMUM DC OUTPUT CURRENT (@ $T_C=100^\circ\text{C}$) (Common Cathode, Common Anode)	I_O	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t=8.3\text{ms}$, Sine)	I_{FSM}	150	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$)	C_T	1100	pF
MAXIMUM THERMAL RESISTANCE (Per leg)	$R_{\theta JC}$	2.82	$^\circ\text{C/W}$
MAXIMUM OPERATING TEMPERATURE RANGE	T_{op}/T_{stg}	-65 to + 175	$^\circ\text{C}$
MAXIMUM STORAGE TEMPERATURE RANGE	T_{op}/T_{stg}	-65 to + 175	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

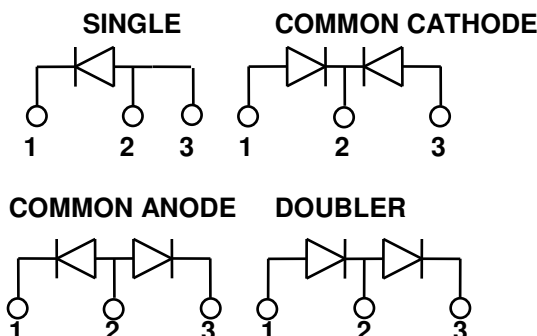
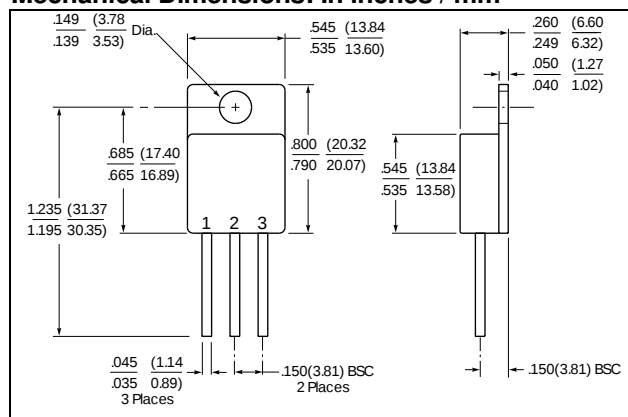
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 15\text{ Amps}$) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	V_f	0.58 0.48	Volts
MAXIMUM REVERSE CURRENT (I_r @ 30 V PIV) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_r	2 100	mA

SENSITRON

TECHNICAL DATA

DATASHEET 4720, REV. A

Mechanical Dimensions: In inches / mm



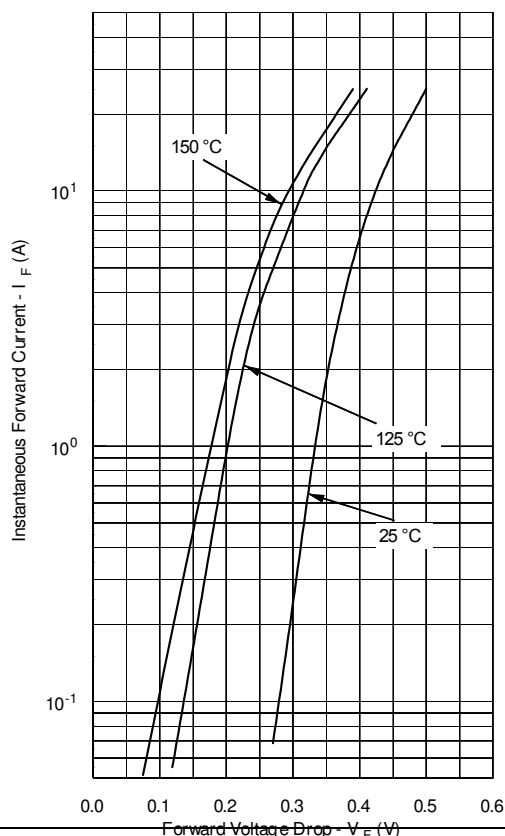
TO-254

PINOUT TABLE

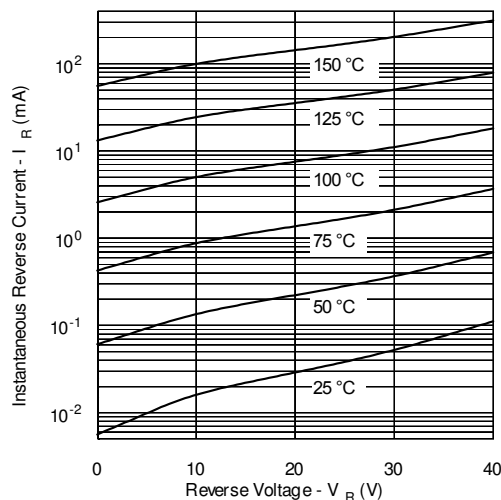
TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
DUAL RECTIFIER, COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
DUAL RECTIFIER, COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DUAL RECTIFIER, DOUBLER (D)	ANODE	CATHODE/ ANODE	CATHODE

Curves shown are for bare die only.

Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance

