

TECHNICAL DATA DATA SHEET 4706, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER 150°C Maximum Operation Temperature

DESCRIPTION: A 45-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	45	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)	lo	6	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	55	Amps
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	160	pF
MAXIMUM THERMAL RESISTANCE	$R_{ heta JC}$	3.17	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C

ELECTRICAL CHARACTERISTICS

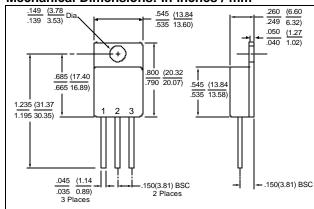
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 3 Amps)			
$T_J = 25$ °	C V _f	0.66	Volts
T _J = 125	°C	0.61	
MAXIMUM REVERSE CURRENT (I _r @ 45 V PIV)			
T _J = 25 °	C I _r	0.3	mA
T _J = 125	°C	14	

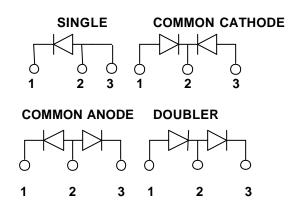
SENSITRON

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TO-254

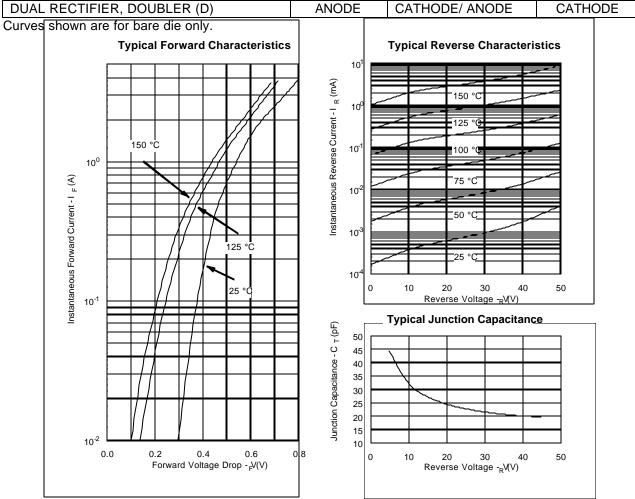
Mechanical Dimensions: In inches / mm





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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