

TECHNICAL DATA DATA SHEET 4041, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER

200°C Maximum Operation TemperatureSINGLE / DUAL COMMON CATHODE, COMMON ANODE, DOUBLER

DESCRIPTION: A 100 VOLT, 30 AMP POWER SCHOTTKY RECTIFIER IN A HERMETIC TO-254 PACKAGE.

MAXIMUM RATINGS

ALL RATINGS ARE AT T_C = 25 °C UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (T _C = 100 °C) (SINGLE / DOUBLER)	lo	15	Amps
MAXIMUM DC OUTPUT CURRENT (T _C = 100 °C) (COMMON CATHODE / COMMON ANODE)	I _O	30	Amps
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine) (per leg)	I _{FSM}	150	Amps
JUNCTION CAPACITANCE V _R = 5Vdc (per leg)	C _T	500	рF
MAXIMUM THERMAL RESISTANCE (SINGLE)	$R_{ heta JC}$	1.45	°C/W
MAXIMUM THERMAL RESISTANCE	$R_{ heta JC}$	0.72	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	T _{op/stg}	-65 to +200	°C

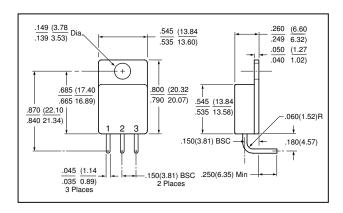
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP (I _F = 15A) (per leg)			
T _J = 25 °C	V_{f}	0.93	Volts
T _J = 125 °C		0.77	
MAXIMUM REVERSE CURRENT (I, @ PIV) (per leg)			_
T _J = 25 °C	I _r	0.35 8.0	mA
T _J = 125 °C		0.0	

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MECHANICAL DIMENSIONS: In Inches / mm

TO-254

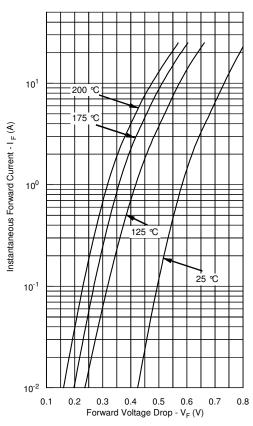


PINOUT TABLE

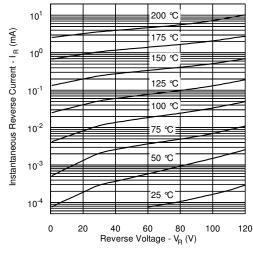
TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
DUAL RECTIFIER, COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
DUAL RECTIFIER, COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DOUBLER (D)	ANODE	ANODE/CATHODE	CATHODE

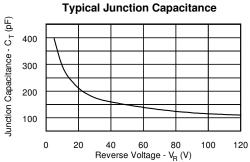
Vf curves shown are for die only.

Typical Forward Characteristics



Typical Reverse Characteristics





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TECHNICAL DATA

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