TECHNICAL DATA
DATASHEET 4724, REV. C

HERMETIC POWER SCHOTTKY RECTIFIER

DESCRIPTION: A 60-VOLT, 35 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	60	Volts
MAXIMUM DC OUTPUT CURRENT (@ T_C=100 ^{O}C) (Single, Doubler)	I_O	30	Amps
MAXIMUM DC OUTPUT CURRENT (@ T_C=100 ^{O}C) (Common Cathode, Common Anode)	I_O	35	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I_{FSM}	570	Amps
MAXIMUM JUNCTION CAPACITANCE (V_r=5V)	C_T	1600	pF
MAXIMUM THERMAL RESISTANCE (Per leg)	$R_{\theta JC}$	1.5	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Top/Tstg	-55 to + 175	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-55 to + 175	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I_f = 30 Amps)			
T_J = 25 °C	V_f	0.83	Volts
T_J = 125 °C		0.78	
MAXIMUM REVERSE CURRENT (I_r @ 60 V PIV)			
T_J = 25 °C	I_r	4	mA
T_J = 125 °C		280	

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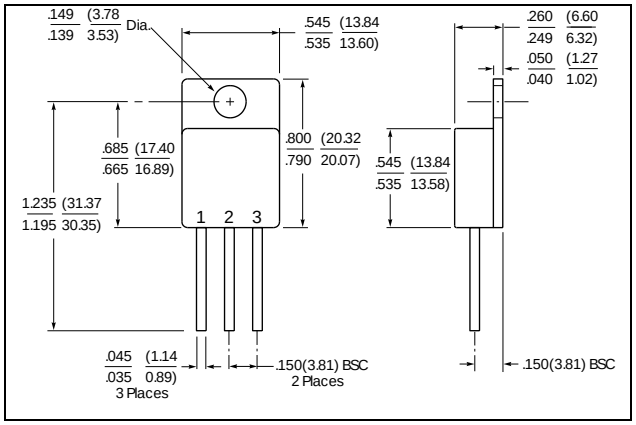
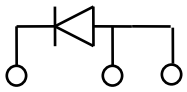
Mechanical Dimensions: In inches / mm



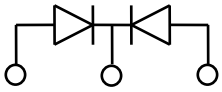
TO-254

SINGLE



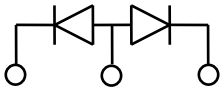
1 2 3

COMMON CATHODE



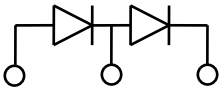
1 2 3

COMMON ANODE



1 2 3

DOUBLER



1 2 3

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

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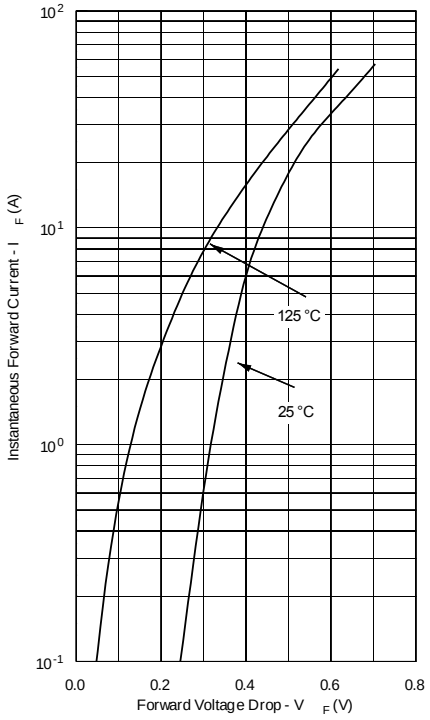
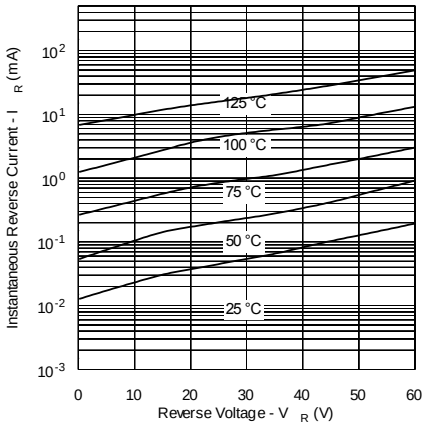
Curves shown are for bare die only.

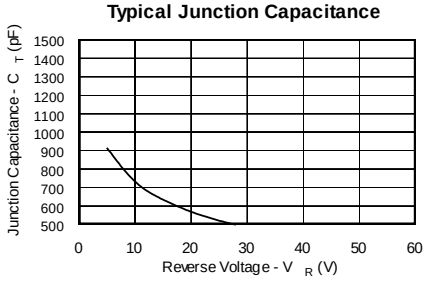
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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