TECHNICAL DATA DATASHEET 4734, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER 200°C Maximum Operation Temperature

DESCRIPTION: A 100-VOLT, 35 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC TO-254 PACKAGE.

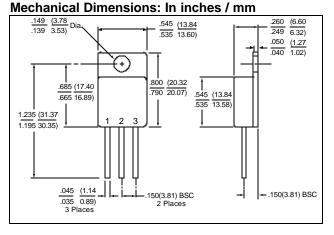
MAXIMUM RATINGS	ALL RATINGS ARE @ T _C = 25 °C UNLESS OTHERWISE SPECIFIED.			
RATING		SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE		PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (@ T _C =70 ^O C) (Single, Doubler)		lo	35	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)		I _{FSM}	150	Amps
MAXIMUM JUNCTION CAPACITANCE	(V _r =5V)	C _T	1500	pF
MAXIMUM THERMAL RESISTANCE (Single)		$R_{ extsf{ heta}JC}$	0.60	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE		Top/Tstg	-65 to + 200	°C
MAXIMUM STORAGE TEMPERATURE RANGI	Ē	Top/Tstg	-65 to + 200	°C

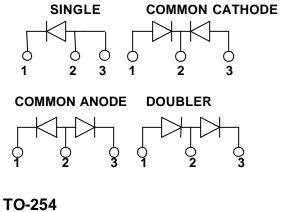
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 35 \text{ Amps}$)				
	Γ _J = 25 °C	V _f	1.02	Volts
	Γ _J = 125 °C		0.84	
MAXIMUM REVERSE CURRENT (Ir @ 100 V PIV)				
	Γ _J = 25 °C	l _r	1	mA
	Γ _J = 125 °C		24	

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PINOUT TABLE

FINOUTTABLE					
ТҮРЕ	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	i	Typical Reverse Characteristics			
	10 ²				
		200 °C			
	л	175 °C			
		150 °C			
		125 °C			
	e e e e e e e e e e e e e e e e e e e	100 °C			
€ 175 °C	Instantaneous Reverse Current -1 _R (mÅ) -00 0.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1				
00 Unrent - I = (A)	L Ray L	75 °C			
	10 ⁻²	50 °C			
j j j j j j j j j j j j j j j j j j j	Tanta				
	<u></u> 10 ⁻³	25 °C			
	10-4				
	0	0 20 40 60 80 100 120 Reverse Voltage - ₂ V(V)			
		Typical Junction Capacitance			
	لم 1400 –				
	<u>d</u> 1400				
	1400 1200 1200 1200 100 1000 1				
	 پو				
	008				
	Q				
	.00 to 100				
10^{-2} 0.1 0.2 0.3 0.4 0.5 0.6 0.7					
0.1 0.2 0.3 0.4 0.5 0.6 0.7 Forward Voltage Drop - ≱ (V)					
• 221 WEST INDUSTRY COURT • DEER PARK, NY	11729-4681 • PHON	NE (631) 586-7600 • FAX (631) 2	42-9798 •		

• World Wide Web Site - http://www.sensitron.com ● E-mail Address - sales@sensitron.com ●



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