TECHNICAL DATA DATASHEET 4728, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER 175°C Maximum Operation Temperature

DESCRIPTION: A 150-VOLT, 30/35 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC TO -254 PACKAGE.

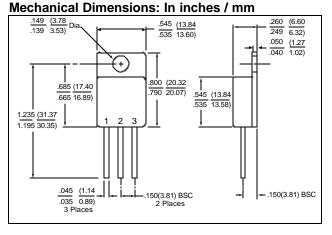
MAXIMUM RATINGS	ALL RATINGS ARE @ T_c = 25 °C UNLESS OTHERWISE SPECIFIED.			
RATING		SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE		PIV	150	Volts
MAXIMUM DC OUTPUT CURRENT (@ T _C =100 ^O C) (Single, Doubler)		lo	30	Amps
MAXIMUM DC OUTPUT CURRENT (@ T _C =100 ^O C) (Common Cathode, Common Anode)		lo	35	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)		I _{FSM}	570	Amps
MAXIMUM JUNCTION CAPACITANCE	(V _r =5V)	C _T	1000	pF
MAXIMUM THERMAL RESISTANCE (Single)		$R_{ ext{ heta}JC}$	0.77	°C/W
MAXIMUM OPERATING TEMPERATURE RANG	E	Top/Tstg	-65 to + 175	°C
MAXIMUM STORAGE TEMPERATURE RANGE		Top/Tstg	-65 to + 175	°C

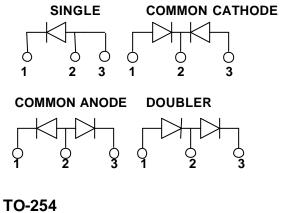
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 35 \text{ Amps}$)				
	$T_J = 25 \ ^{\circ}C$	V _f	1.05	Volts
	T _J = 125 °C		0.89	
MAXIMUM REVERSE CURRENT (Ir @ 150 V PIV)				
	$T_J = 25 \ ^{\circ}C$	l _r	1	mA
	T _J = 125 °C		15	

SENSITRON

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PINOUT TABLE

FINUUTIADLE						
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.	7					
Typical Forward Characteristics		Typical Reverse Characteristics				
10 ²	10 ¹					
		175 °C				
	\widehat{a} 10 ⁰					
	nstantaneous Reverse Current - _R I(mA) - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0					
175 °C	Ĕ 10 ⁻¹					
	nrre					
	0 9, 10 ⁻²	100 °C				
€ <u>125 °C</u> ////	- si cers					
	Re Re	75 °C				
	\$n 10 ⁻³	50 °C				
	ut ut		\pm			
	⁻⁰¹	25 °C				
125 °C	10 ⁻⁵					
gg 10 ⁻¹ 25 ℃	0 20 40 60 80 100 120 140 160 Reverse Voltage - ¼ (V)					
star						
		Typical Junction Capacitance				
	<u>E</u> 1000					
	<u> </u>					
	2 600	┝┽┽╋┽┽┽╋┽╋╇╵	25 °C			
	cita	\mathbb{N}				
	00					
	C 200	┟ ╎╎╏╎╎╤╤┲╤╋┇╡	═╊┿┥			
	Uunction Capacitance - 6 (pF)					
0.0 0.2 0.4 0.6 0.8						
Forward Voltage Drop - V _F (V)	Reverse Voltage - ¥ (V)					
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