

TECHNICAL DATA DATA SHEET 346, REV. A

HERMETIC ULTRAFAST RECOVERY RECTIFIER

DESCRIPTION: 300 VOLT, 15 AMP, 35 NS, RECTIFIER IN A HERMETIC TO-254 PACKAGE.

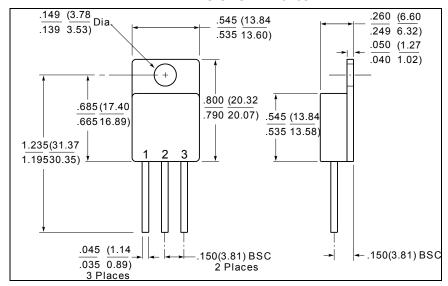
MAX RATINGS/ELECTRICAL CHARACTERISTICS ALL RATINGS ARE AT TA = 25 °C UNLESS OTHERWISE SPECIFIED.

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RATING	SYMBOL	MAX.	UNITS	
PEAK INVERSE VOLTAGE (PER LEG)	PIV	300	Volts	
MAXIMUM FORWARD VOLTAGE DROP (PER LEG)				
$I_F = 10A, T_A = 25^{\circ}C$	V_{f}	1.35	Volts	
$I_F = 20A, T_A = 25^{\circ}C$		1.55		
$I_F = 10A, T_A = -55^{\circ}C$		1.45		
MAXIMUM DC OUTPUT CURRENT (T _C = 100 ^o C) (PER LEG)	Io	15	Amps	
PEAK SINGLE CYCLE SURGE CURRENT t _p = 8.3 msec.	I _{FSM}	150	Amps	
MAXIMUM REVERSE RECOVERY TIME ($I_f = 0.5A$, $I_r = 1.0A$, $I_{rr} = 0.25A$)	t _{rr}	35	nsec	
MAXIMUM REVERSE CURRENT I _r @ PIV PER LEG $(T_C = 25^{\circ}C)$	I _r	50	μΑ	
$(T_C = 100^{\circ}C)$		5	mA	
MAXIMUM THERMAL RESISTANCE (PER LEG)	R _{eJC}	2.0	°C /W	
MAXIMUM OPERATING TEMPERATURE RANGE	T _{OP}	-55 to +175	°C	
JUNCTION CAPACITANCE V _R = 10Vdc, f = 1MHz	CJ	150	pF	
V _{SIG} = 50mV (p-p) (Max)				

^{*} Suffix R denotes common anode version.

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MECHANICAL DIMENSIONS: In Inches / mm

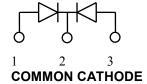


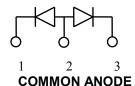
PINOUT TABLE

TO-254

TYPE	PIN 1	PIN 2	PIN 3
DUAL RECTIFIER, COMMON CATHODE	ANODE 1	COMMON CATHODE	ANODE 2
DUAL RECTIFIER, COMMON ANODE (R)	CATHODE 1	COMMON ANODE	CATHODE 2

SCHEMATIC





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