

MAXIN	IUM R	ATIN	GS

Ratings	Symbol	1N5832	UNIT
Peak Repetitive Reverse Voltage	VRRM	20	Volts
Working Peak Reverse Voltage	VRWM		
PC Blooking Voltage	VRSM		
Nonrepetitive Peak Reverse Voltage	V _{RSM}	24	Volts
Average Rectified Forward Current	lo	40	Amp
$V_{R(equiv)} \leq 0.2 V_{R(dc)} T_{C} = 85^{0}C$			
Ambient Temperature Rated V _{R(dc)} . P _{F(AV)} = 0, R _{0JA} =3.5 ^o C/W	TA	100	С С
Nonrepetitive Peak Surge Current	IFSM	800	Amp
(surge applied at rated load conditions, halfwave,		for one cycle	
single phase, 50 Hz)			
Operating and Storage Junction Temperature Range	T _{J,} T _{stg}	-65 to + 125	℃
(Reverse voltage applied)			
Peak Operating Junction Temperature (Forward	T _{J(pk)}	150	℃
Current Applied)			
THERMAL CHARACTERISTICS			
Characteristics	Symbol	Max	Unit
Thermal Resistance, Junction to case	Rejc	1.0	°C/W
ELECTRICAL CHARACTERISTICS (Tc =25°Cunless other	erwise noted)		
Maximum Instantaneous Forward Voltage(1) (IF=10 Amps)	Vf	0.36	Volts
(I⊧=40 Amps))		0.52	
(I⊧=125 Amps)		0.980	
Maximum Instantaneous Reverse Current @		20	ma
Rated dc Voltage(1) (1) (Tc=100°C		150	

Data (1) Pulse Test: Pulse Width = 300 µs, Duty Cycle=2%,