

■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified.)(Note 2)

PARAMETER	SYMBOL	RATINGS	UNIT
Maximum Repetitive Reverse Voltage	V_{RRM}	40	V
Average Rectified Forward Current. 375 " lead length @ $T_A=75^\circ\text{C}$	$I_{F(AV)}$	3.0	A
Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	I_{FSM}	80	A
Power Dissipation	P_D	3.6	W
Junction Temperature	T_J	+125	$^\circ\text{C}$
Storage Temperature	T_{STG}	-65 ~ +125	$^\circ\text{C}$

Notes 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

: Absolute maximum ratings are stress ratings only and functional device operation is not implied.

2. These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	40	$^\circ\text{C/W}$

■ ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage @ 3.0 A	V_F			500		mV
Reverse Current @ Rated V_R	I_R	$T_A = 25^\circ\text{C}$		0.5		mA
		$T_A = 100^\circ\text{C}$		20		mA
Maximum Full Load Reverse Current Full Cycle	I_{rr}	$T_A = 100^\circ\text{C}$		30		mA
Total Capacitance	C_T	$V_R = 4.0\text{ V}, f = 1.0\text{ MHz}$		180		pF

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