



■ **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	$\theta_{JA}$	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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