SEMICONDUCTOR TM

FAIRCHILD

FLLD261 HIGH CONDUCTANCE LOW LEAKAGE DIODE

PD350 mW @ TA = 25 Deg C BV200 V (MIN) @ IR = 5 uA

ABSOLUTE MAXIMUM RATINGS (NOTE 1)

TEMPERATURES

Storage Temperature	-55 to +150 Degrees C
Operating Junction Temperature	-55 to +150 Degrees C

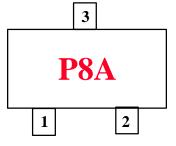
POWER DISSIPATION (NOTES 2 & 3)

Total Device Dissipation at $TA = 25 Deg C$	350 mW
Derating Factor per Degree C	2.8 mW

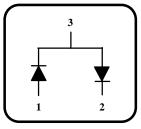
VOLTAGES & CURRENTS

WIV	Working Inverse Voltage	100 V	
IO	Average Rectified Current	250 mA	
IF	DC Forward Current 600 m		
if	Recurrent Peak Forward Current	700 mA	
if (surge)	if (surge) Peak Forward Surge Current		
Pulse width = 1 second 1.0 A			
	Pulse width $= 1$ microsec	3.0 A	

PACKAGE TO-236AB (Low)



CONNECTION DIAGRAMS



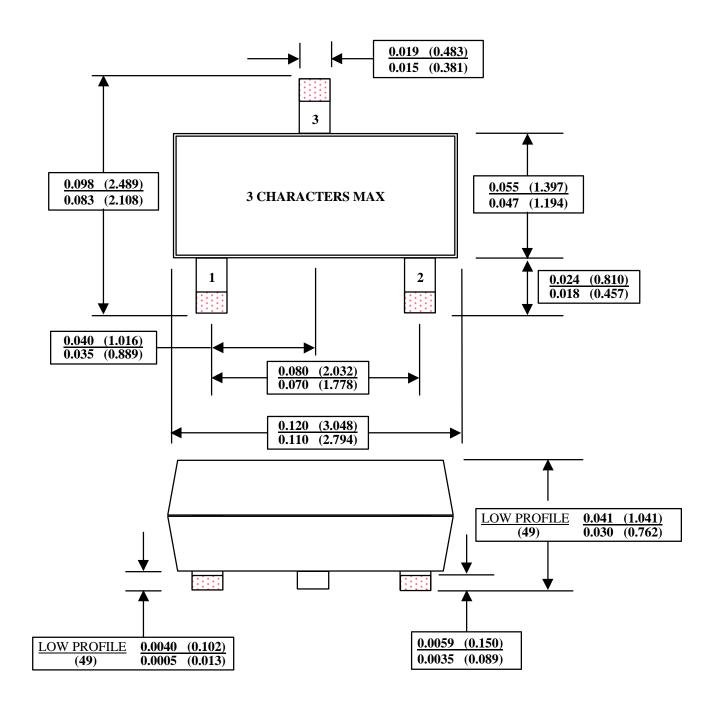
ELECTRICAL CHARACTERISTICS (25 Degrees C Ambient Temperature unless otherwise stated)

SYM	CHARACTERISTICS	MIN	MAX	UNITS	TEST CONDITIONS
Bv	Breakdown Voltage	200		V	IR = 5.0 uA
Ir	Reverse Voltage Leakage Current		5.0 5.0	nA uA	
VF	Forward Voltage		1.40	V	IF = 200 mA
Ст	Diode Capacitance		4.0	pF	$V_{R} = 1.0 V$ f = 1.0 MHz
Trr	Reverse Recovery Time		400	ns	$IF = IR = 50 \text{ to } 400 \text{ mA}$ $IRR = 10\% \text{ IR} \qquad RL = 100 \text{ ohms}$
Tfr	Forward Recovery Time		10	ns	IF = 10 mA
Vfm	Peak Forward Voltage		0.9 Тур	V	IF = 10 mA Rise Time = 5 ns +/-20%

NOTES:

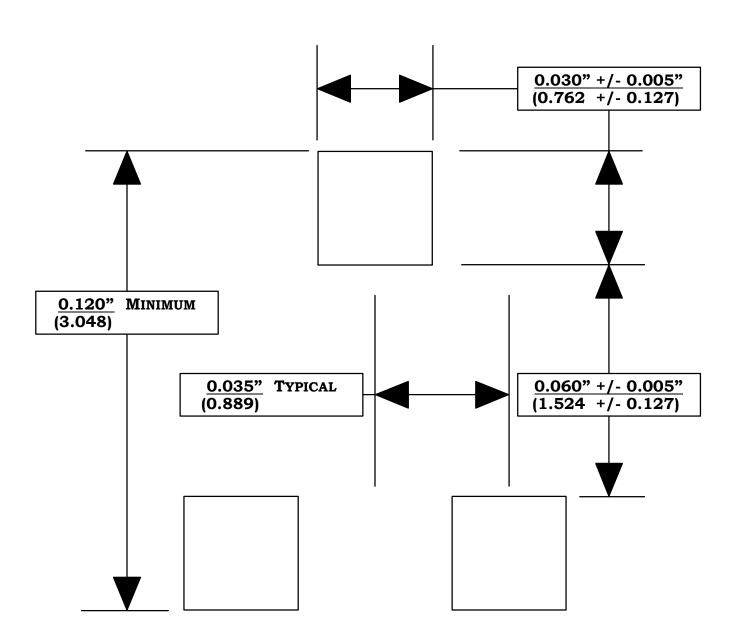
These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.
These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.





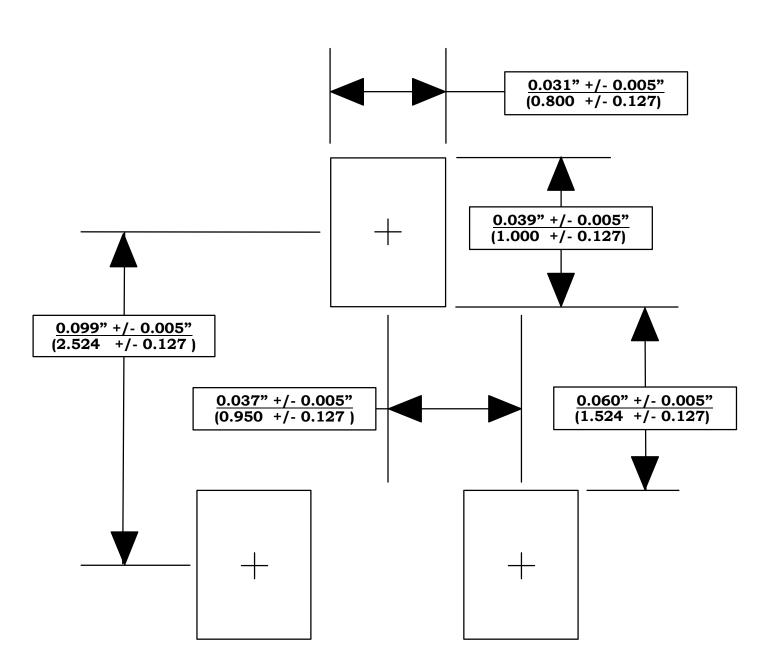














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