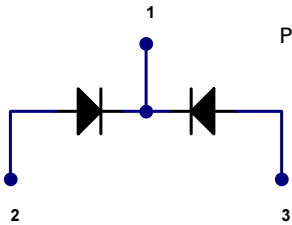


SOT23 SILICON PLANAR HIGH SPEED SWITCHING COMMON CATHODE DIODE PAIR

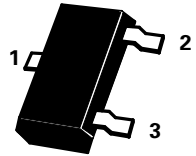
FMMD2838

ISSUE 2 – NOVEMBER 1996

DIODE PIN CONNECTION



PARTMARKING DETAIL – ZA6



SOT23

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Breakdown Voltage ($I_R=100\mu\text{A}$)	$V_{(BR)}$	75	V
Average Rectified Forward Current †	$I_{F(AV)}$	100	mA
Repetitive Peak Forward Surge Current	I_{FRM}	200	mA
Power Dissipation at $T_{amb} = 25^\circ\text{C}$	P_{tot}	330	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^\circ\text{C}$ unless otherwise stated).

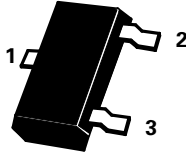
PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Forward Voltage	V_F		1.0	V	$I_F=10\text{mA}$
			1.0	V	$I_F=50\text{mA}$
			1.2	V	$I_F=100\text{mA}$
Reverse Current	I_R		100	nA	$V_R=30\text{V}$
Recovery Time*	t_{rr}		6	ns	$I_F=I_R=10\text{mA}, I_{R(REC)}=1.0\text{mA}$
Diode Capacitance	C_d		4	pF	$V_R=0, f=1\text{MHz}$

*For switching test circuit diagram see page

†Over any 20ms period

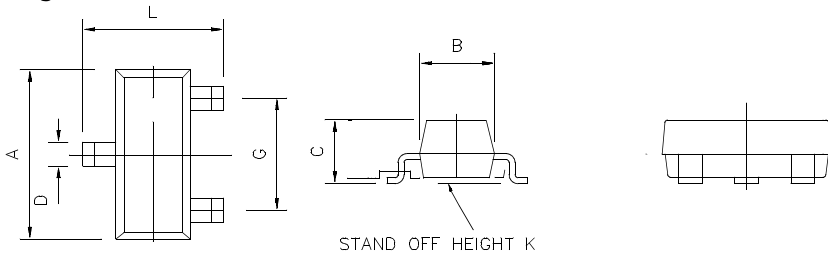
Spice parameter data is available upon request for this device

FLLD2838



DIM	Millimeters		Inches	
	Min	Max	Min	Max
A	2.67	3.05	0.105	0.120
B	1.20	1.40	0.047	0.055
C	-	1.10	-	0.043
D	0.37	0.53	0.0145	0.021
F	0.085	0.15	0.0033	0.0059
G	NOM 1.9		NOM 0.075	
K	0.01	0.10	0.0004	0.004
L	2.10	2.50	0.0825	0.0985
N	NOM 0.95		NOM 0.37	

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