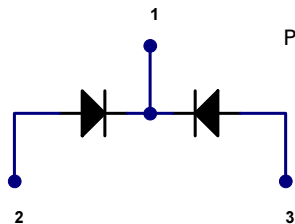


SOT23 SILICON PLANAR HIGH SPEED SWITCHING COMMON CATHODE DIODE PAIR

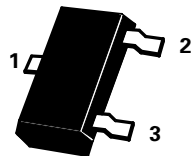
ISSUE 1 – FEBRUARY 1995

FMMD2837

DIODE PIN CONNECTION



PARTMARKING DETAIL – A5



SOT23

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Breakdown Voltage ($I_R=100\mu A$)	$V_{(BR)}$	35	V
Average Rectified Forward Current †	$I_{F(AV)}$	100	mA
Repetitive Peak Forward Surge Current	I_{FRM}	200	mA
Power Dissipation at $T_{amb} = 25^\circ C$	P_{tot}	330	mW
Operating and Storage Temperature Range	$T_j; T_{stg}$	-55 to +150	$^\circ C$

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

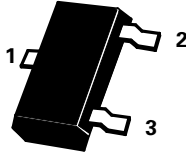
PARAMETER	SYMBOL	MIN.	MAX.	UNIT	CONDITIONS.
Forward Voltage	V_F		1.0 1.0 1.2	V V V	$I_F=10mA$ $I_F=50mA$ $I_F=100mA$
Reverse Current	I_R		100	nA	$V_R=30V$
Recovery Time*	t_{rr}		6	ns	$I_F=I_R=10mA, I_{R(REC)}=1.0mA$
Diode Capacitance	C_d		4	pF	$V_R=0, f=1MHz$

*For switching test circuit diagram see page

†Over any 20ms period

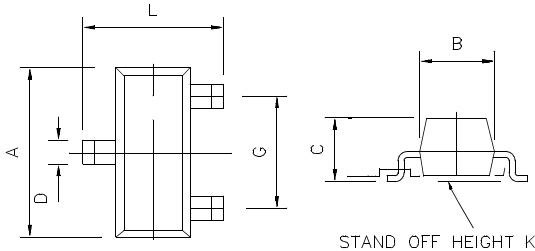
Spice parameter data is available upon request for this device

FMMD2837



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	

Package Details



Zetex plc.
Fields New Road, Chadderton, Oldham, OL98NP, United Kingdom.
Telephone: 0161627 5105 (Sales), 0161627 4963 (General Enquiries)
Facsimile: 0161627 5467

Zetex GmbH
Drosselweg 30
D81827 München
Germany
Telefon: (089) 430 90 29
Fax: (089) 439 37 64

Zetex Inc.
87 Modular Avenue
Commack NY11725
U.S.A.
Telephone: (516) 5437100
Fax: (516) 8647630

Zetex (Asia) Ltd.
3510 Metroplaza, Tower 2
Hing Fong Road, Kwai Fong
Hong Kong
Telephone: 2610 0611
Fax: 2425 0494

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