

SOT23 SILICON PLANAR HIGH SPEED SWITCHING DIODE

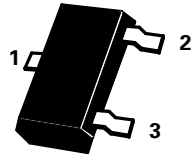
ISSUE 2 - OCTOBER 1995

FMMD6050

DIODE PIN CONNECTION



PARTMARKING DETAIL - 5A



SOT23

ABSOLUTE MAXIMUM RATINGS.

PARAMETER	SYMBOL	VALUE	UNIT
Breakdown Voltage ($I_R=100\mu A$)	$V_{(BR)}$	70	V
Peak Forward Current	I_F	200	mA
Peak Forward Surge Current	I_{FM}	500	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.
Breakdown Voltage	$V_{(BR)}$	70		V	$I_R=10\mu A$
Forward Voltage	V_F	0.5 0.8	0.7 1.1	V V	$I_F=1mA$ $I_F=100mA$
Reverse Current	I_R		0.1	μA	$V_R=50V$
Recovery Time*	t_{rr}		5	ns	$I_F= I_R=10mA,$ $I_{R(REC)}=1 mA$
Diode Capacitance	C_d		2.5	pF	$V_R=0, f=1MHz$

*For switching test circuit diagram see FMMD7000 datasheet