

# SOT23 SILICON PLANAR HIGH SPEED SWITCHING DIODE

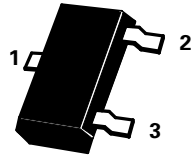
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## FMMD6050

### 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	$\mu A$	$V_R=50V$
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