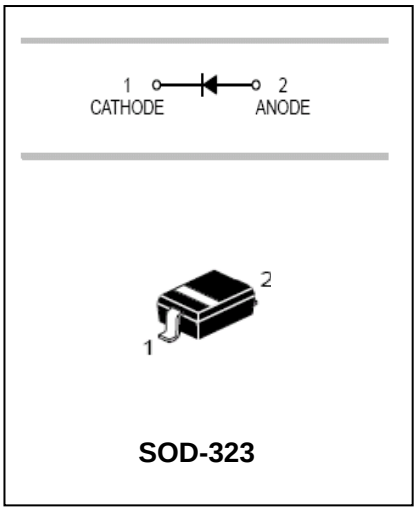
High speed switching diodes **MMDL6050**

FEATURES

- Small Surface Mounting Type: SOD-323
- High Speed :t=4.0ns Typ.

Lead-free



SOD-323

APPLICATIONS

- High speed switching

ORDERING INFORMATION

Type No.	Marking	Package Code
MMDL6050	5A	SOD-323

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Parameter	**Symbol**	**Limits**	**Unit**
Reverse Voltage	V_R	70	V
Forward Current	I_F	200	mA
Peak forward surge current	$I_{FM(surge)}$	500	mA
Power Dissipation	P_D	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	635	℃/W
Junction temperature	T_j	150	℃
Storage temperature	T_{STG}	-55~+150	℃

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

Parameter	**Symbol**	**Min.**	**Typ.**	**Max.**	**Unit**	**Conditions**
Reverse breakdown voltage	$V_{(BR)}$	70			V	I_R=100μA
Forward voltage	V_F	0.55 0.85		0.7 1.1	V	I_F=1.0mA I_F=100mA
Reverse current	I_R			0.1	μA	V_R=50V
Capacitance between terminals	C_T			2.5	pF	V_R=0V,f=1.0MHz
Reverse Recovery Time	t_{rr}			4.0	ns	I_F=I_R=10mA

High speed switching diodes **MMDL6050**

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

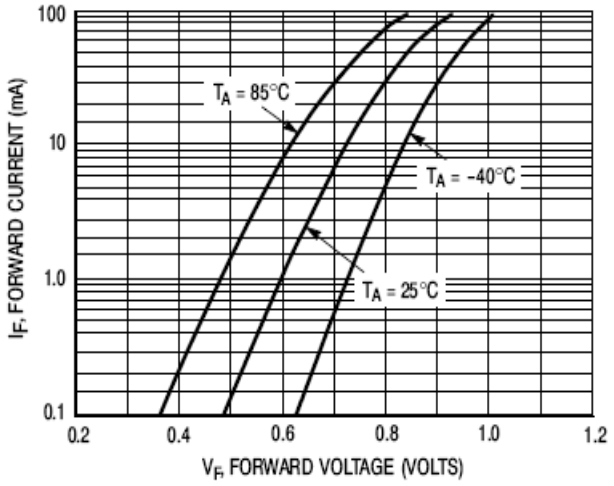


Figure 2. Forward Voltage

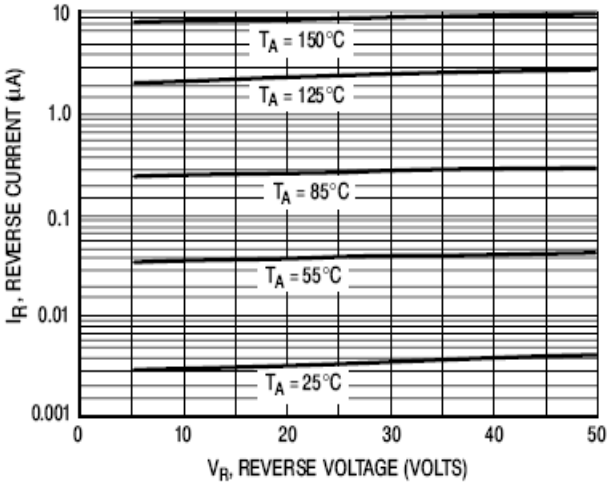


Figure 3. Leakage Current

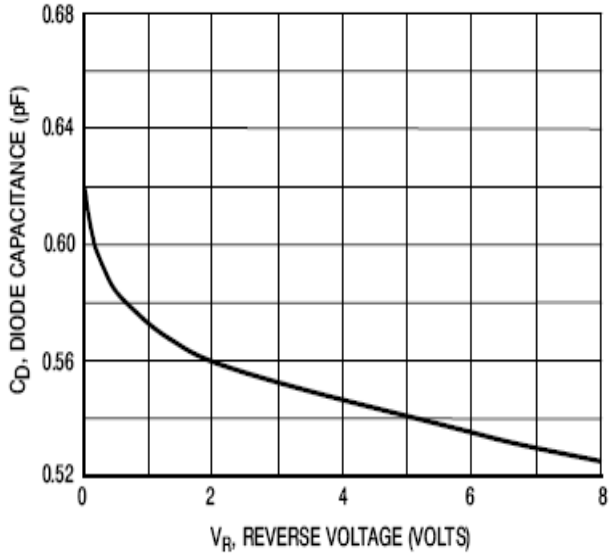
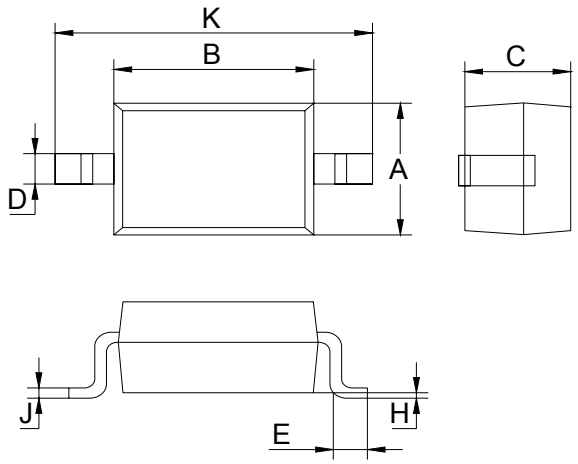


Figure 4. Capacitance

High speed switching diodes **MMDL6050**

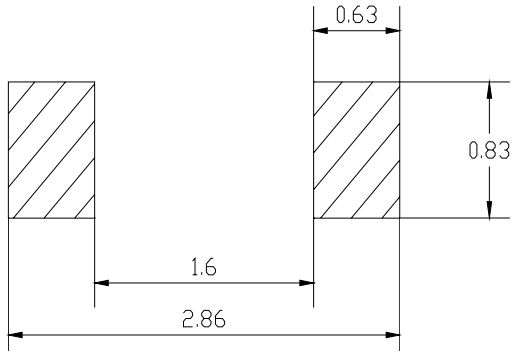
PACKAGE OUTLINE

Plastic surface mounted package SOD-323



SOD-323		
Dim	Min	Max
A	1.275	1.325
B	1.675	1.725
C	0.9 Typical	
D	0.25	0.35
E	0.27	0.37
H	0.02	0.1
J	0.1 Typical	
K	2.6	2.7
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
MMDL6050	SOD-323	3000/Tape&Reel