

High speed switching diodes

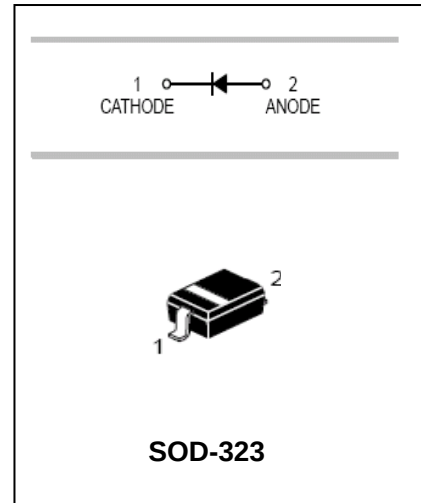
MMDL6050

FEATURES

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



Lead-free



APPLICATIONS

- High speed switching

ORDERING INFORMATION

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

MAXIMUM RATING @ Ta=25°C 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	°C/W
Junction temperature	T_J	150	°C
Storage temperature	T_{STG}	-55~+150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)}$	70			V	$I_R=100\mu A$
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°C unless otherwise specified

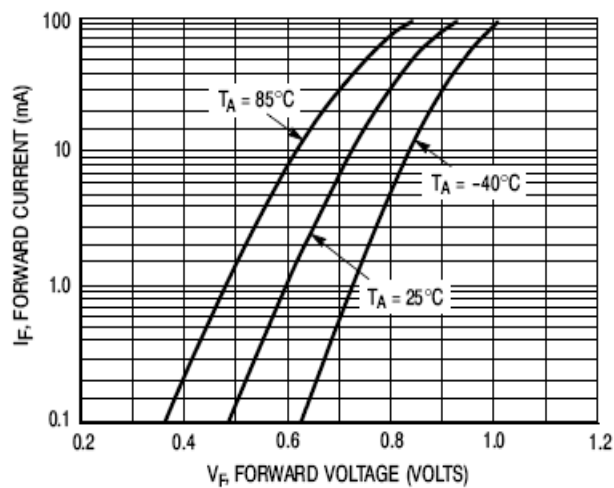


Figure 2. Forward Voltage

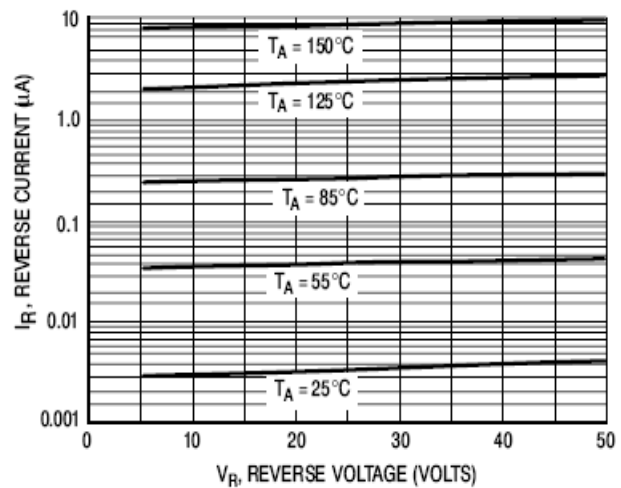


Figure 3. Leakage Current

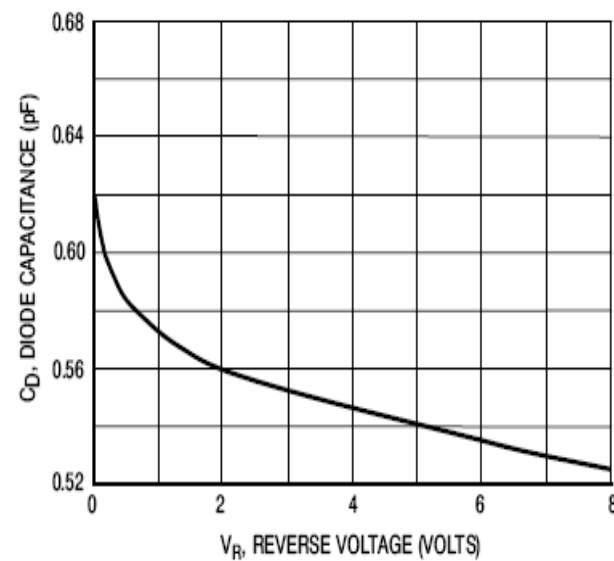


Figure 4. Capacitance

High speed switching diodes

MMDL6050

PACKAGE OUTLINE

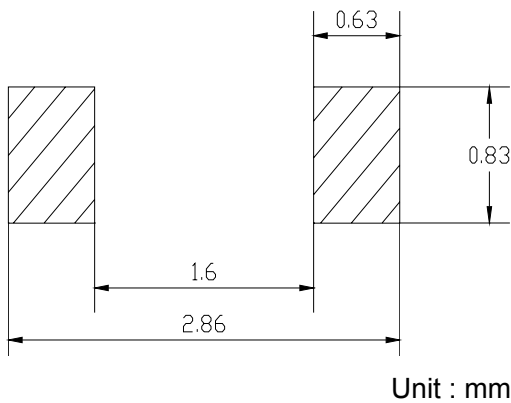
Plastic surface mounted package

SOD-323

The diagram shows three views of the SOD-323 package. The top view shows dimensions K (total width), B (body width), A (height), and D (lead width). The side view shows dimension C (lead thickness). The bottom view shows dimensions J (lead length), E (body length), and H (lead height).

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



PACKAGE INFORMATION

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