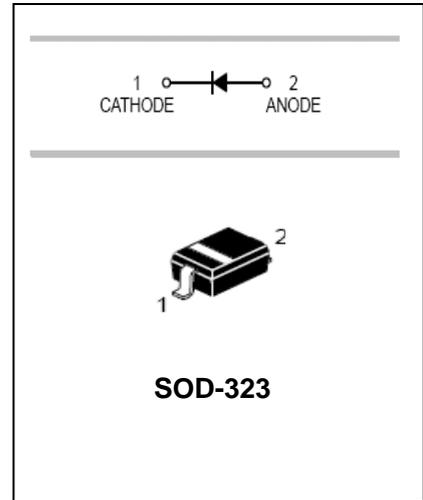


High speed switching diodes

MMDL914

FEATURES

- Small Surface Mounting Type:
SOD-323
- High Speed $t_{rr}=4.0\text{ns(Typ)}$



APPLICATIONS

- High speed switching

ORDERING INFORMATION

Type No.	Marking	Package Code
MMDL914	5D	SOD-323

MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Limits	Unit
Reverse Voltage	V_R	100	V
Forward Current	I_F	200	mA
Peak forward surge current	$I_{FM(\text{surge})}$	500	mA
Power Dissipation	P_D	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	635	$^\circ\text{C/W}$
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{STG}	-55 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)}$	100			V	$I_R=100\mu\text{A}$
Forward voltage	V_F			1.0	V	$I_F=10\text{mA}$
Reverse current	I_R			25 5.0	nA μA	$V_R=20\text{V}$ $V_R=75\text{V}$
Capacitance between terminals	C_T			4.0	pF	$V_R=0\text{V}, f=1.0\text{MHz}$
Reverse Recovery Time	t_{rr}			4	ns	$I_F=I_R=10\text{mA}$

High speed switching diodes

MMDL914

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

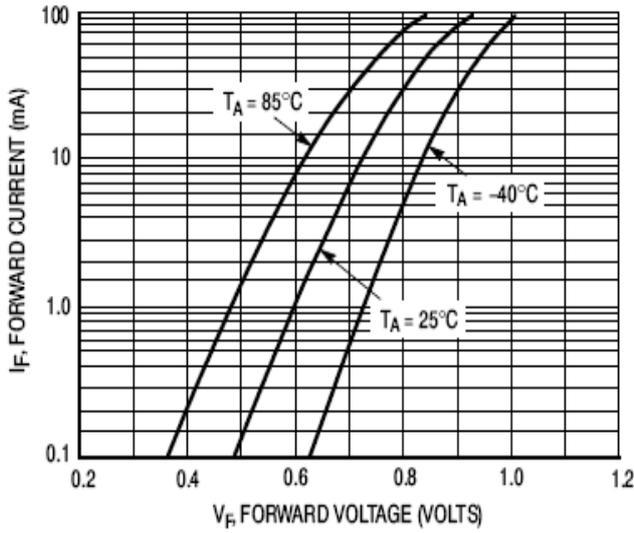


Figure 2. Forward Voltage

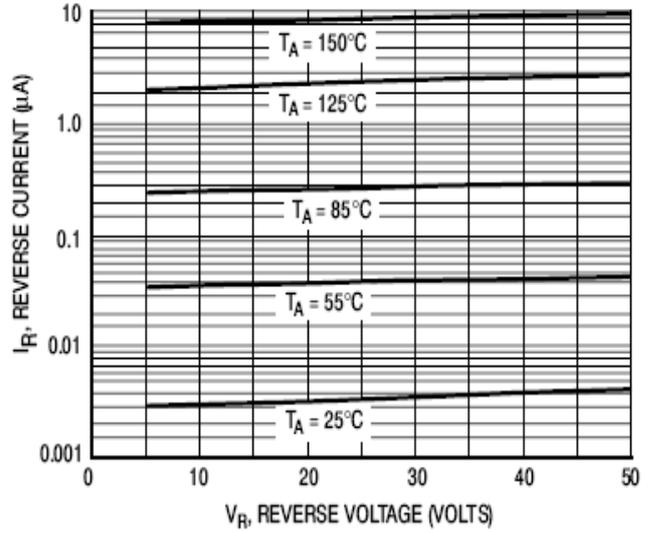


Figure 3. Leakage Current

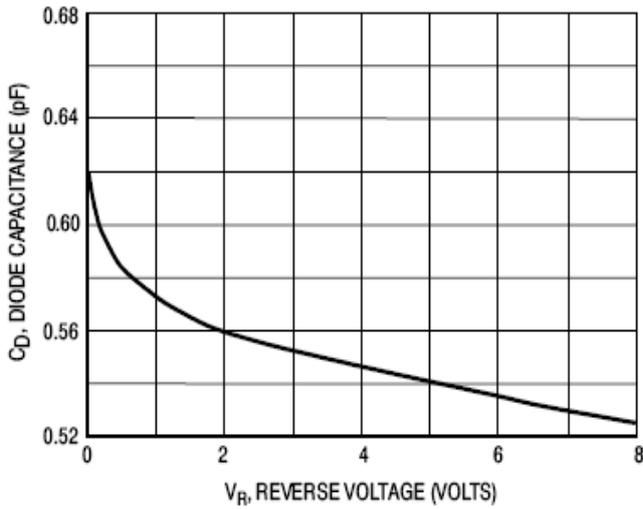


Figure 4. Capacitance

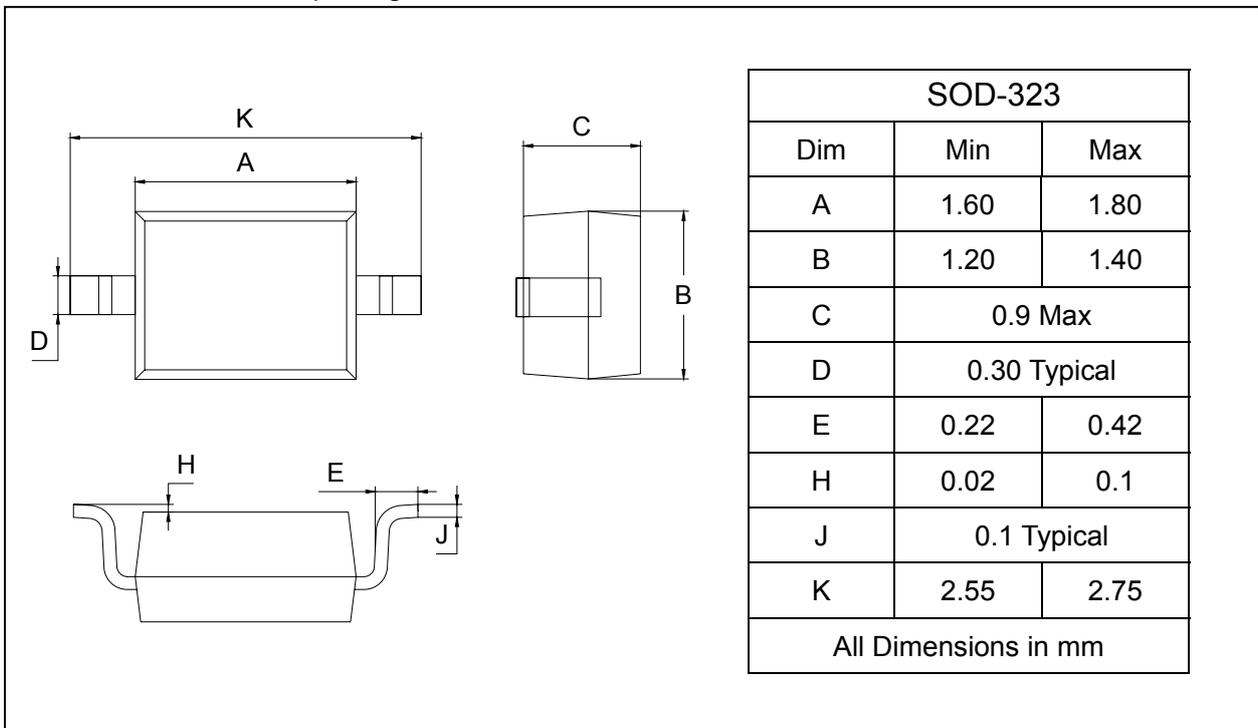
High speed switching diodes

MMDL914

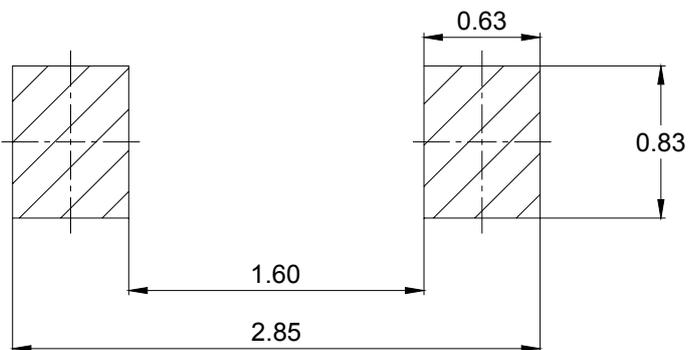
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
MMDL914	SOD-323	3000/Tape&Reel