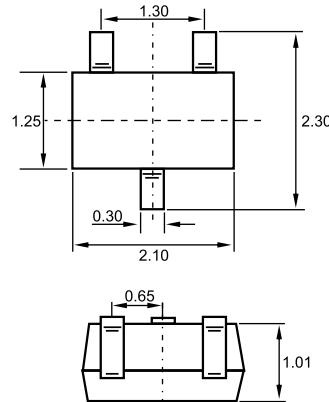


SOT-323



Dimensions in inches and (millimeters)

Features

- ✧ Fast $t_{rr}<10\text{ns}$.
- ✧ Low $C_D,<15\text{pF}$.
- ✧ Pb/RoHS Free.

Applications

- ✧ For high speed switching applications.

Ordering Information

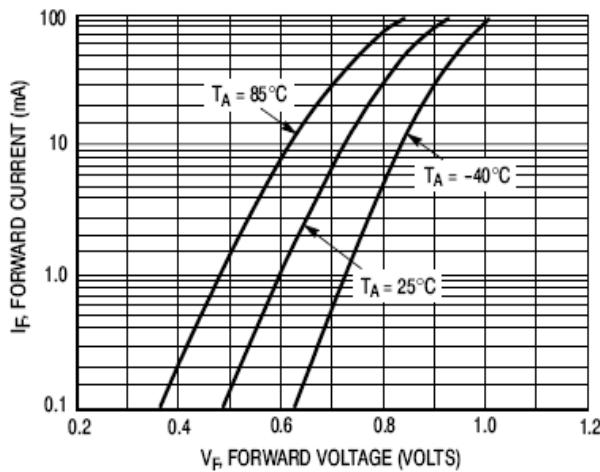
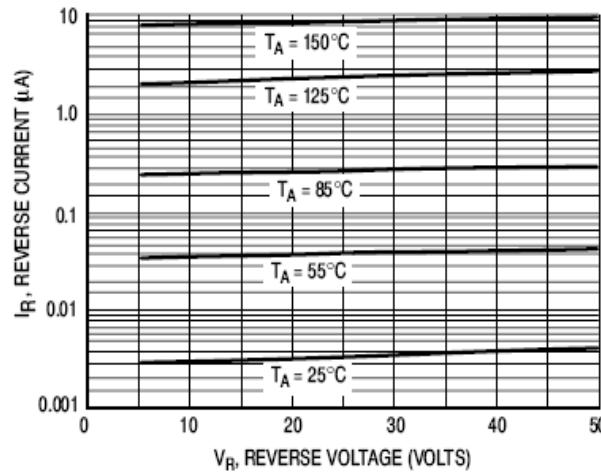
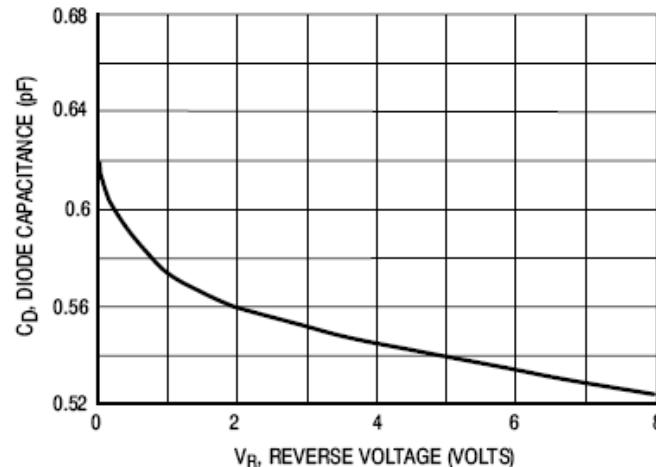
Type No.	Marking	Package Code
M1MA141WA M1MA142WA	MN MO	SOT-323 SOT-323

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

Parameter	Symbol	Limits	Unit
Peak reverse voltage M1MA141WA M1MA142WA	V_{RM}	40 80	V
Reverse voltage M1MA141WA M1MA142WA	V_R	40 80	V
Peak forward Current(max.) single dual	I_{FM}	225 340	mA
Forward output Current single dual	I_F	100 150	mA
Peak Forward Surge Current (1s) M1MA141WA M1MA142WA	I_{FSM}	500 750	mA
Power Dissipation	P_d	150	mW
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	-55+150	°C


ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse Breakdown voltage M1MA141WA M1MA142WA	V _R	I _R =100µA	40 80		V
Reverse current M1MA141WA M1MA142WA	I _R	V _R =35V V _R =75V		0.1	µA
Forward voltage	V _F	I _F =100mA		1.2	V
Diode capacitance	C _D	V _R =0V,f=1MHz		15	pF
Reverse recovery time	t _{rr}	V _R =6V,I _F =10mA, R _L =100Ω,I _{rr} =0.1I _R		10	ns

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Figure 2. Forward Voltage

Figure 3. Reverse Current

Figure 4. Diode Capacitance