



**/ Descriptions**

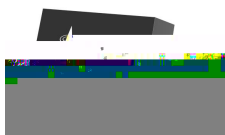
SOD-323

Silicon Diode in a SOD-323 Plastic Package.

AEC-Q101

Small signal diode, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

Switching diodes, Meet the stringent requirements of automotive applications.



PIN1:Cathode

PIN2:Anode

**/ Marking**

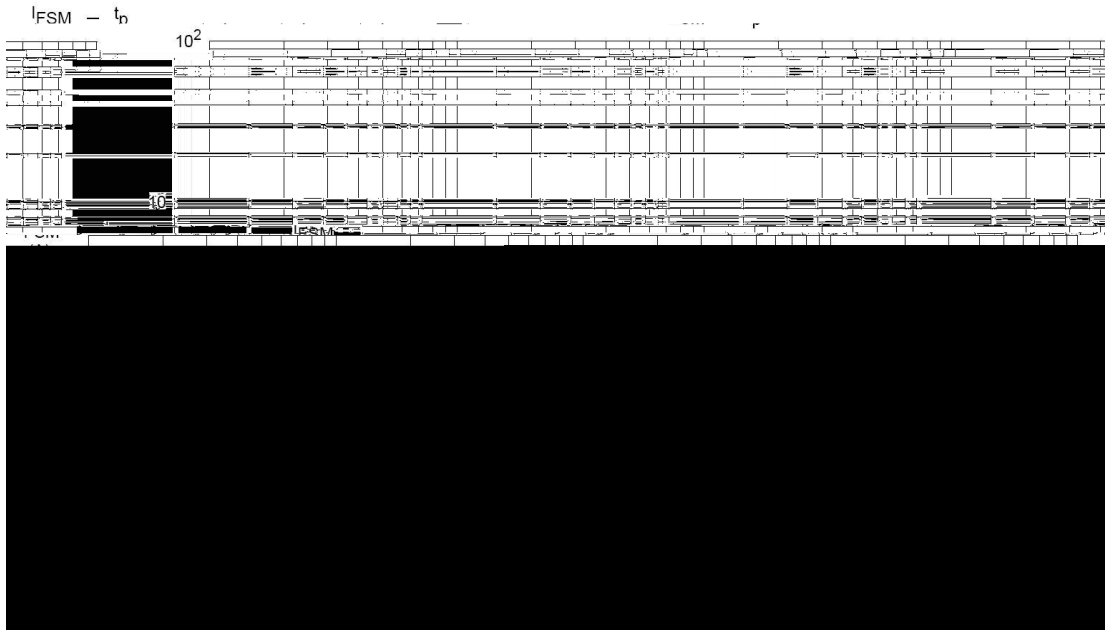
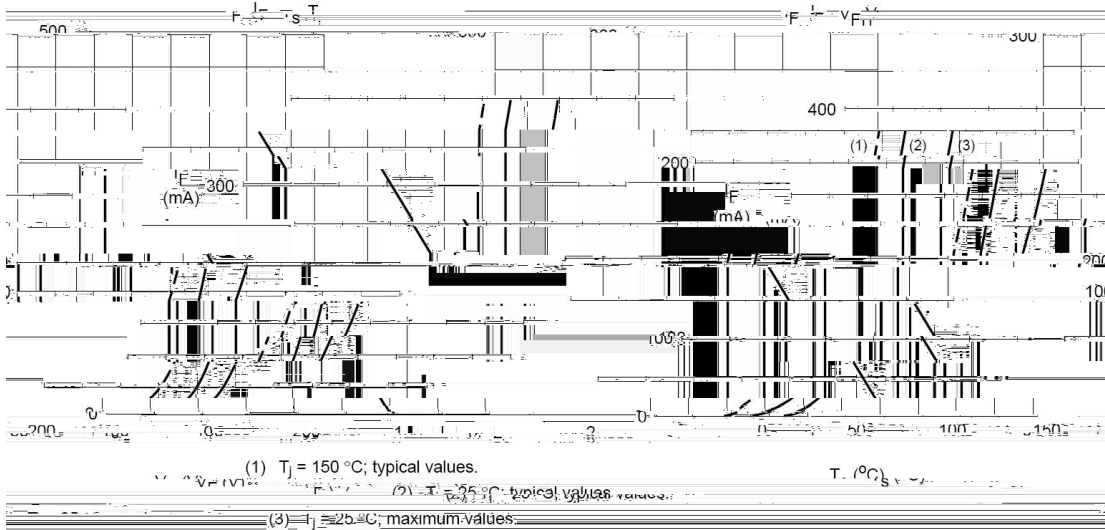


Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$	85	V
Continuous forward current	$I_{F(AV)} (T_s=90^\circ C)$	250	mA
Non-repetitive peak forward current	$I_{FSM(1)(t=1S)}$	0.5	A
	$I_{FSM(2)(t=1mS)}$	1.0	A
Total power dissipation	$P_{tot} (T_s=90^\circ C)$	400	mW
Thermal resistance from junction to soldering point	$R_{J-S}$	150	K/W
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-65 ~ 150	°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Forward Voltage	$V_F$	$F=1mA$			715	mV
		$F=10mA$			855	mV
		$F=50mA$			1.0	V
		$F=150mA$			1.25	V

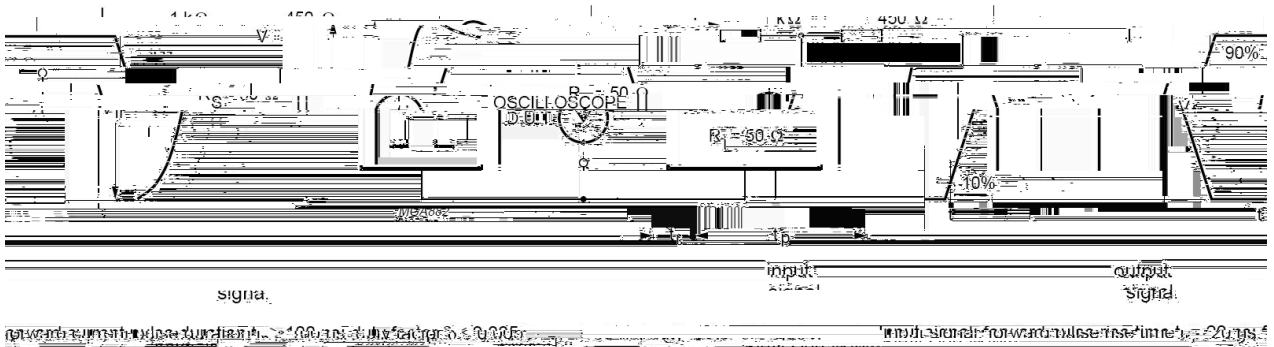
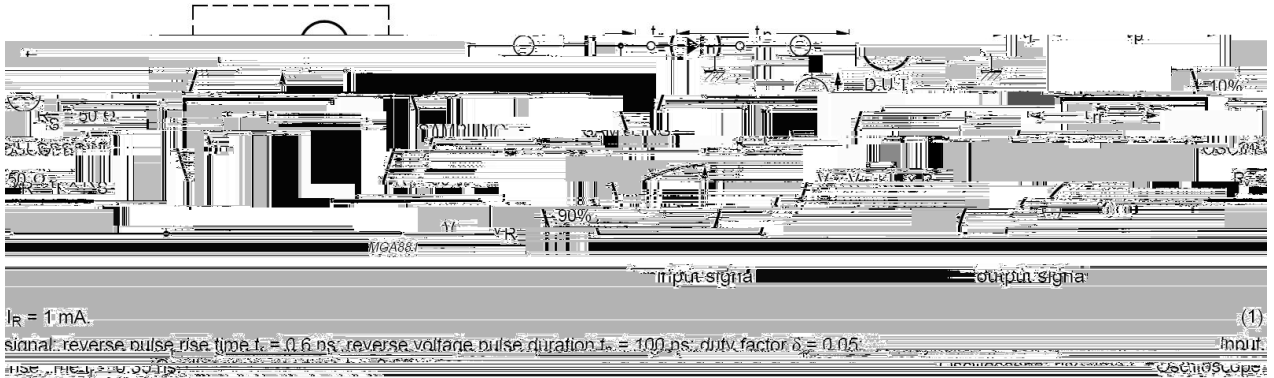


**/ Electrical Characteristic Curve**



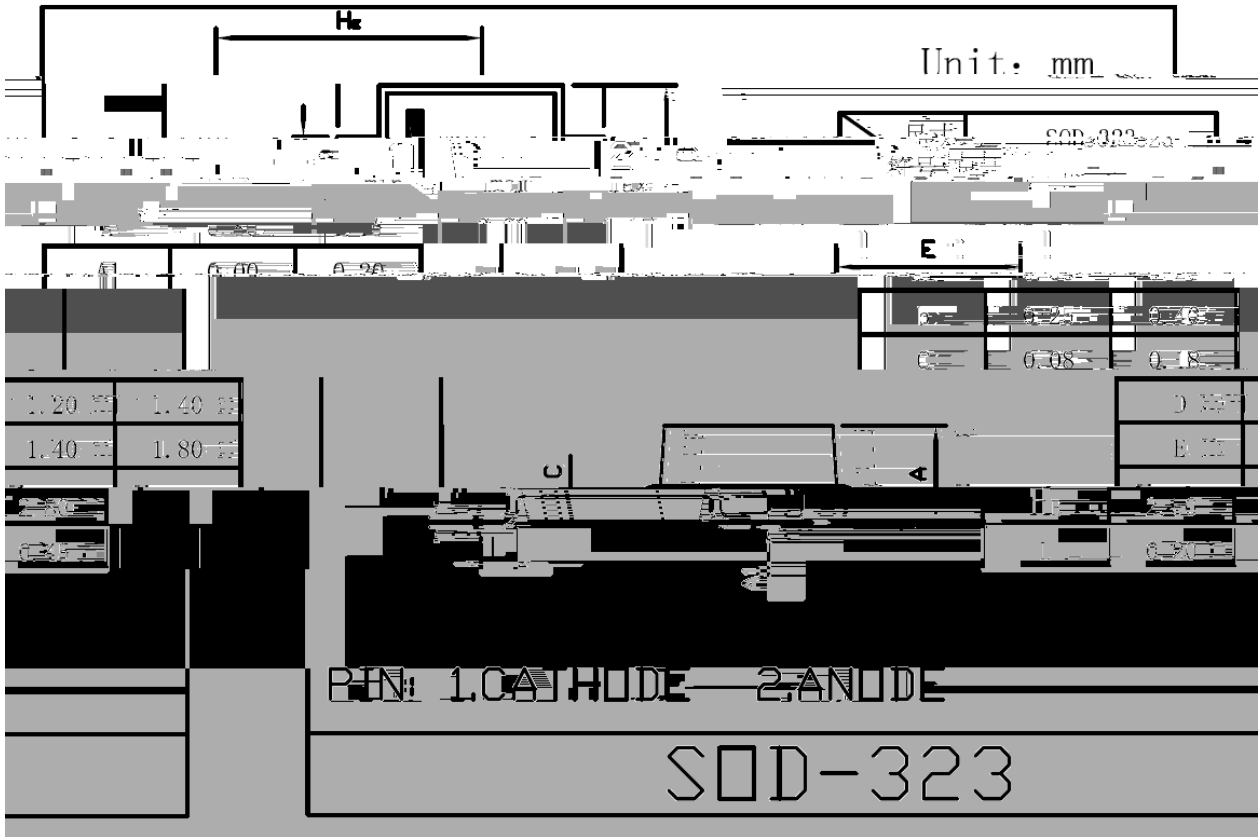


/ Test circuit and waveforms.

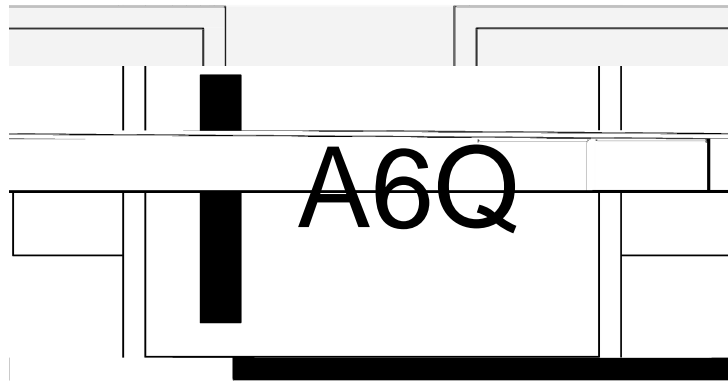




/ Package Dimensions



**/ Marking Instructions**



A6

Q

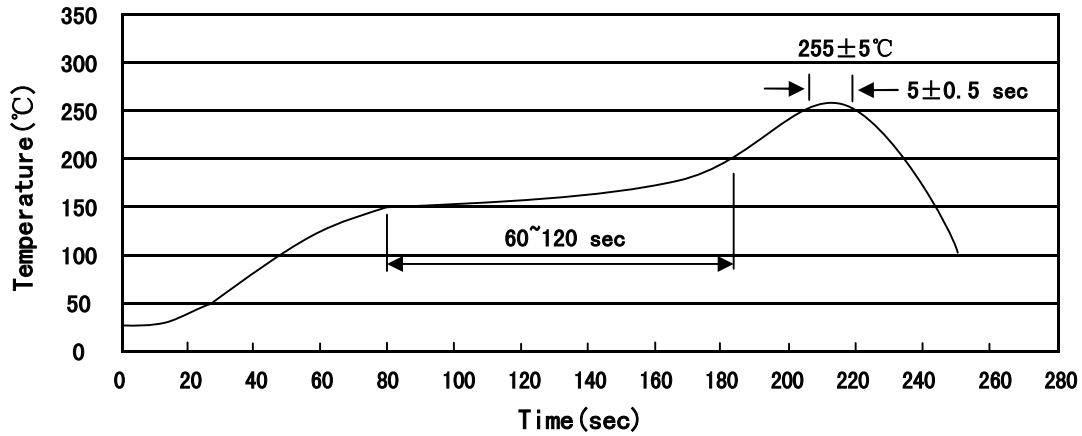
Note:

A6: Product Type Code

Q: Automobile halogen-free product Code



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Note:

- 1            150 200            60 120sec;    1.Preheating:150~200 , Time:60~120sec.
- 2            255±5                    5±0.5sec;    2.Peak Temp.:255±5 , Duration:5±0.5sec.
- 3                            2 10 /sec.            3. Cooling Speed: 2~10 /sec.

**/ Resistance to Soldering Heat Test Conditions**

260±5                    10±1 sec.                    Temp.:260±5                    Time:10±1 sec

**/ Packaging SPEC.**

/ REEL

Package Type	Units					Dimension (unit: mm <sup>3</sup> )		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box fl	Outer Box L
SOD-323	3,000	10	30,000	6	180,000	7" x8	180x120x180	390x385x205

**/ Notices**