



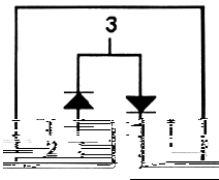
SOT-23

Silicon Diode in a SOT-23 Plastic Package.

AEC-Q101

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

High Conductance Ultra Fast Diode, Meet the stringent requirements of automotive applications.



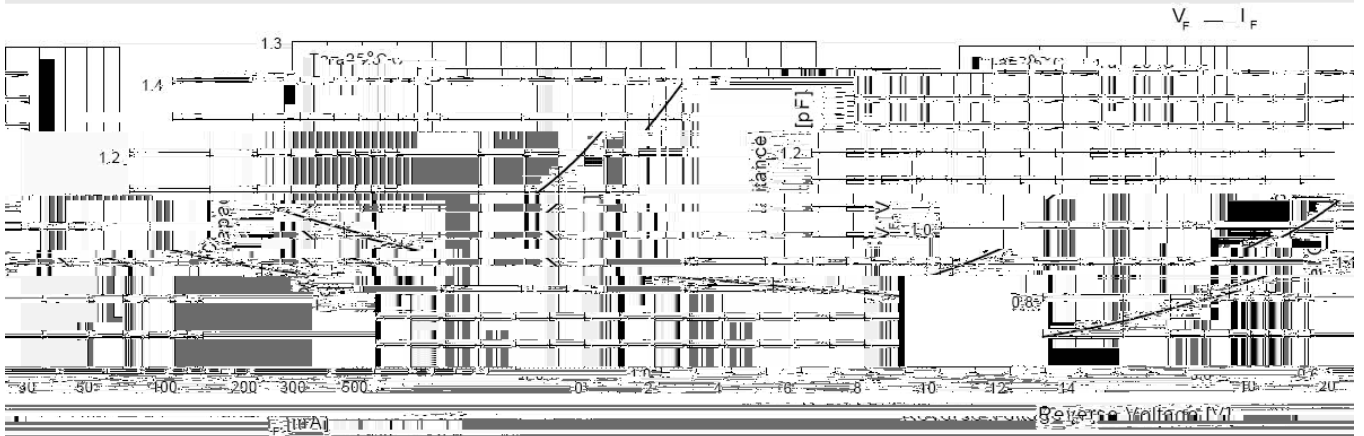
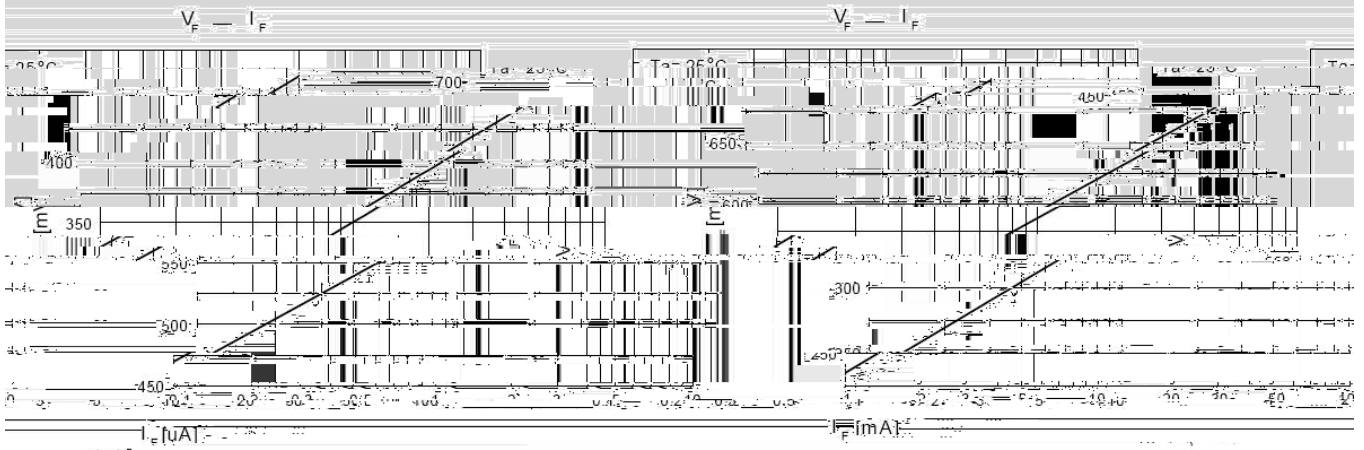
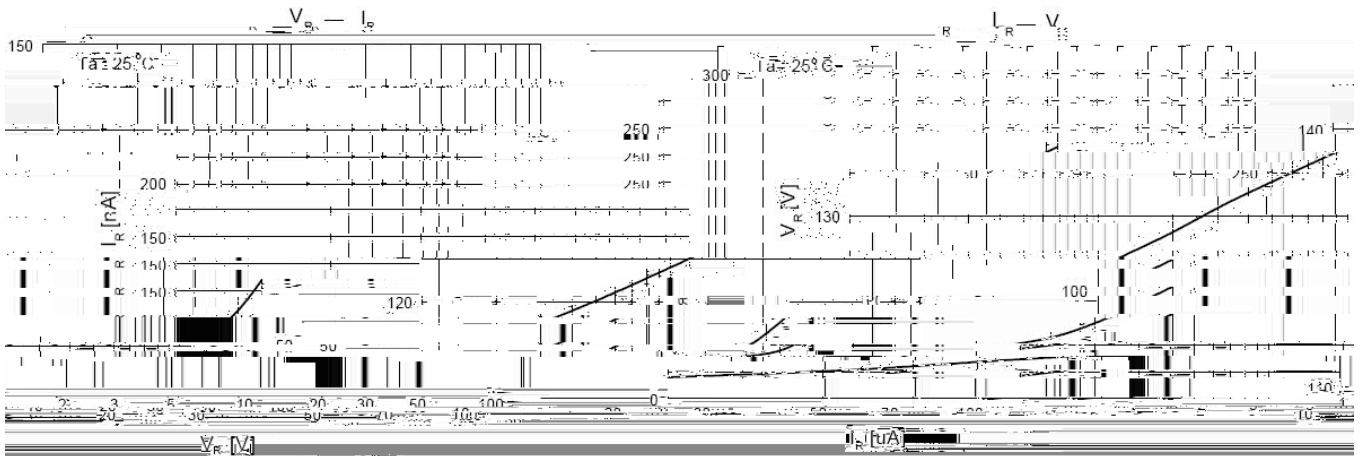
PIN: See Equivalent Circuit.

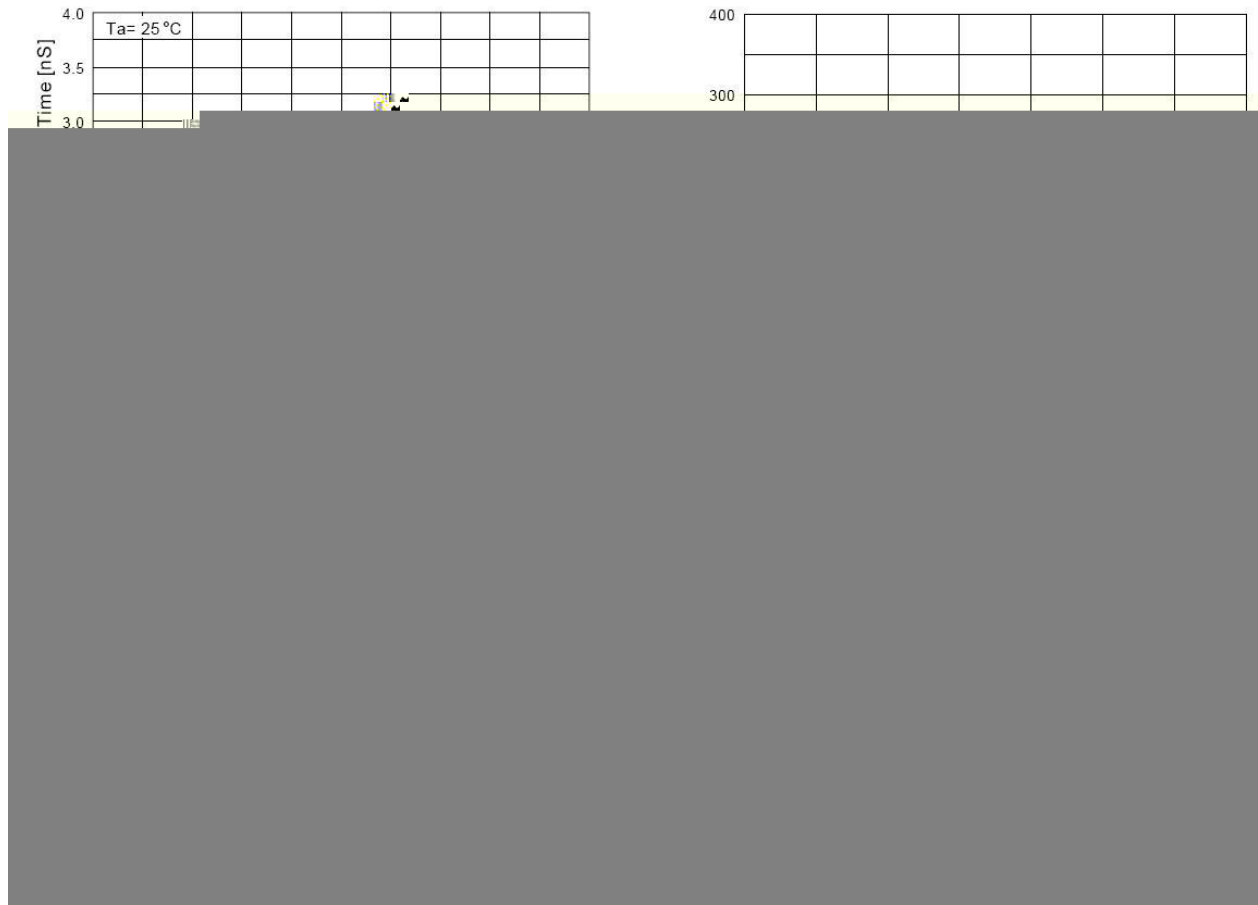
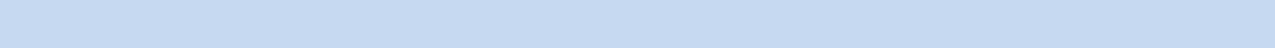
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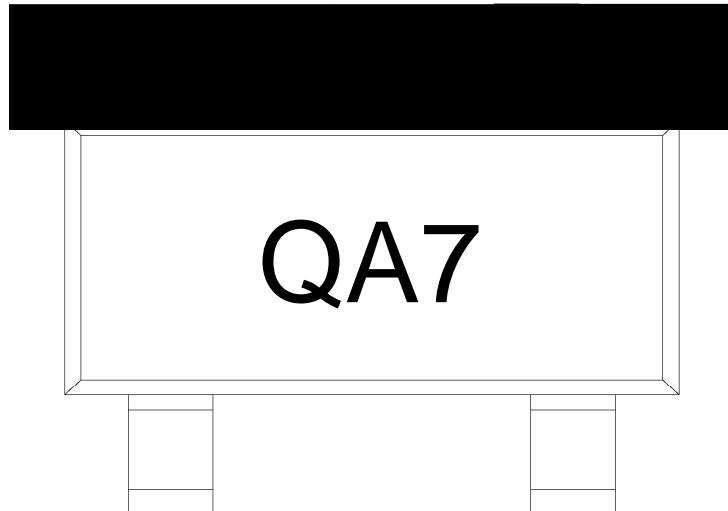




Parameter	Symbol	Rating	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	70	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current	$I_{FSM(1)}$ (pulse width=1.0S)	1.0	A
	$I_{FSM(2)}$ (pulse width=1.0mS)	2.0	A
Power Dissipation	P_D	350	mW
Thermal Resistance, Junction to Ambient	R_{JA}	357	°C/W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55	







Q

A7

Note:

Q: Automobile halogen-free product Code

A7: Product Type Code



Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

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

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

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm ³)		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/盒	Units/Outer Box 只/	Reel	Inner Box 盒	Outer Box 箱