

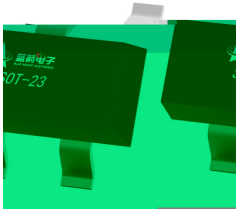
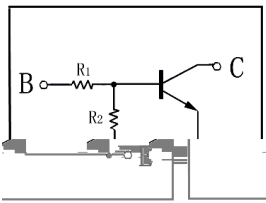
Rev.A Jun.-2022

SOT-23 NPN Silicon NPN Digital transistor in a SOT-23 Plastic Package.

AEC-Q101

With built-in bias resistors, simplify circuit design, reduce a quantity of parts and manufacturing process, Qualified to AEC-Q101 Standards for High Reliability, HF Product.

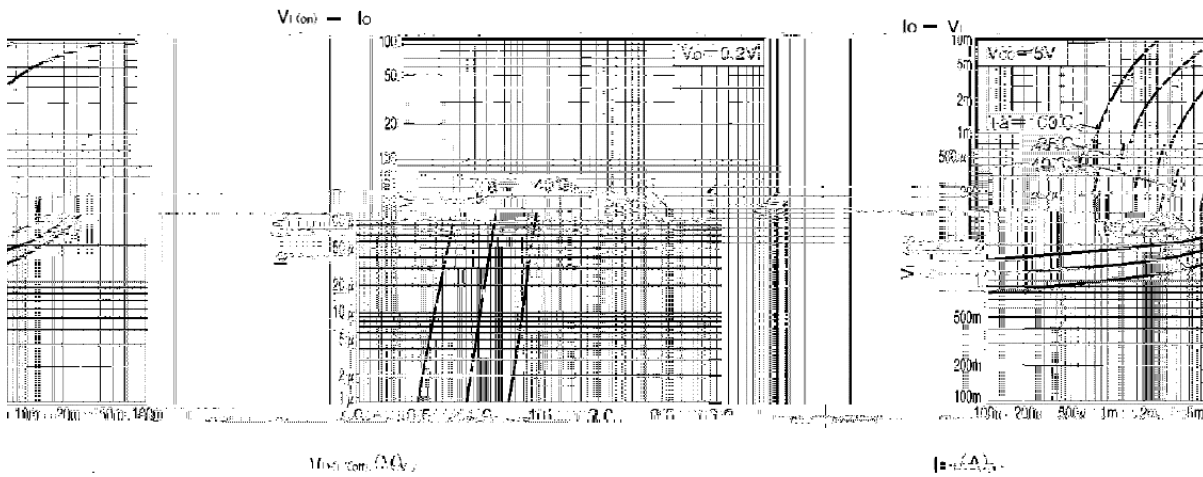
Switching, inverter circuit, interface circuit and driver circuit applications, Meet the stringent requirements of automotive applications.



PIN 1 Base PIN 2 Emitter PIN 3 Collector

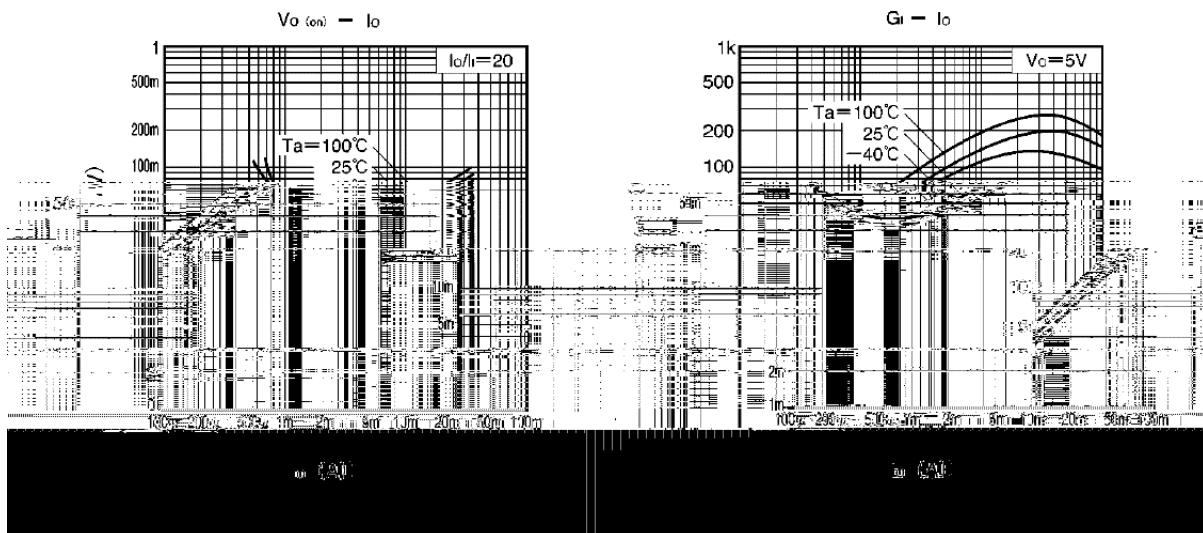
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Parameter	Symbol	Rating	Unit
Output Voltage	V_{CC}	50	V
Input Voltage	V_{IN}		



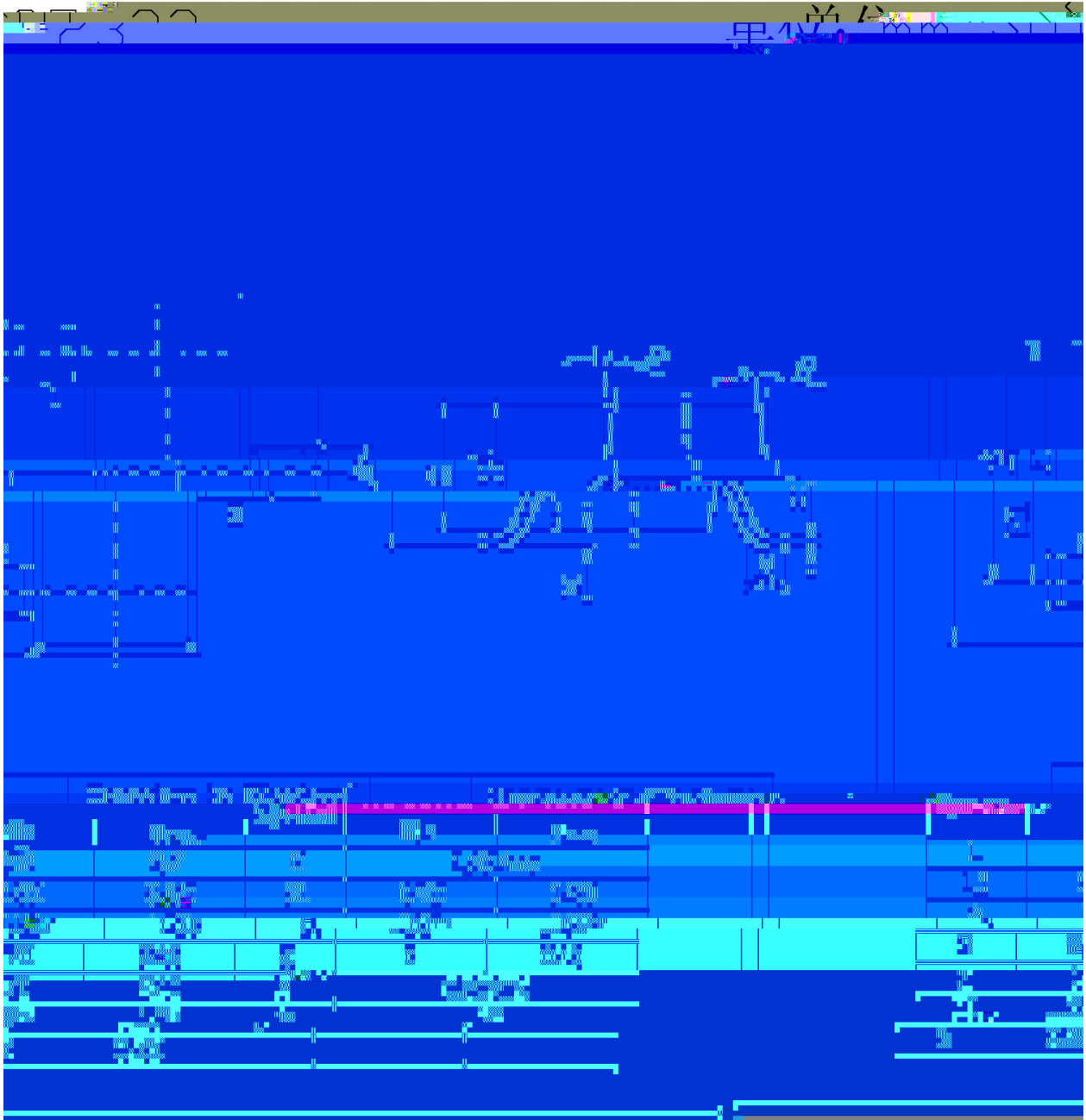
$V_i(\text{cont}) - I_o$

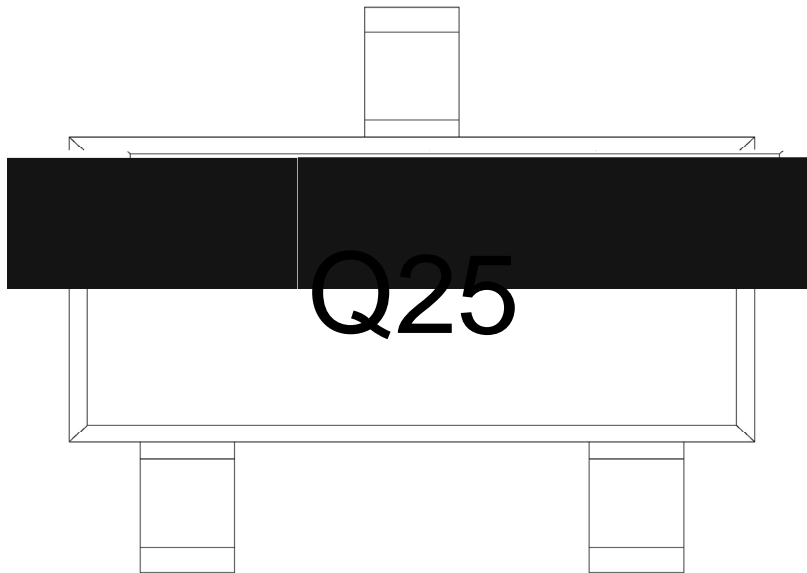
$I_o - V_i$



$V_o(\text{cont}) - I_o$

$G_i - I_o$





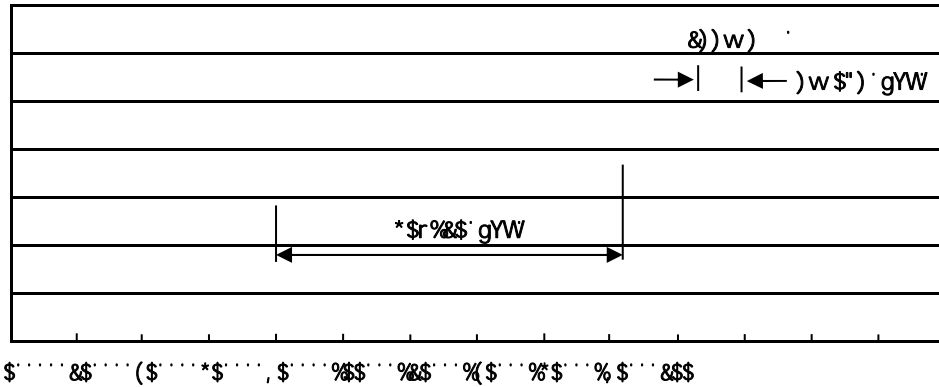
Q

25

Note:

Q: Automobile halogen-free product Code

25 Product Type Code

Temperature Profile for IR Reflow Soldering(Pb-Free)

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. |

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
SOT-23	3,000	10	30,000	6	180,000	7 ×8	180×120×180	390×385×205