



# BAW56

Rev.E May.-2021

DATA SHEET

## / Descriptions

Silicon Diode in a SOT-23 Plastic Package.

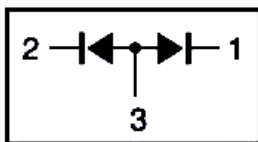
## / Features

Small package, double diode, high switching speed, high repetitive peak reverse voltage, repetitive peak forward current up to 450mA. HF Product.

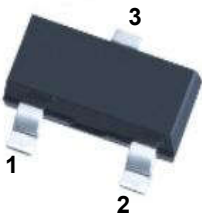
## / Applications

High-speed switching in thick and thin-film circuits..

## / Equivalent Circuit



## / Pinning



PIN: See Equivalent Circuit.

## / hFE Classifications & Marking

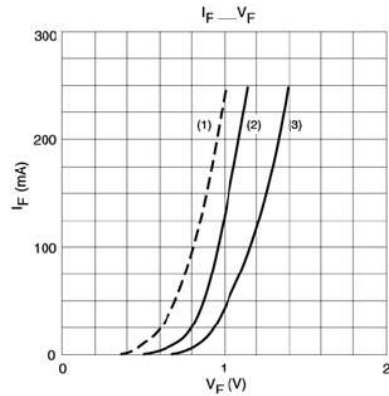
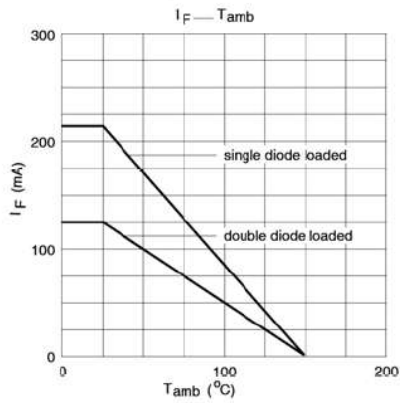
Marking	HA1
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Parameter	Symbol	Rating	Unit
Repetitive Reverse Voltage	$V_{RRM}$	85	V
Continuous Reverse Voltage	$V_R$	75	V
Average Rectified Forward Current	$I_{F(\text{single diode loaded})}$	215	mA
	$I_{F(\text{double diode loaded})}$	125	mA
Repetitive Peak Forward Current	$I_{FRM}$	450	mA
Non-repetitive Peak Forward Surge Current	$I_{FSM(1)(t=1\mu S)}$	4.0	A
	$I_{FSM(2)(t=1mS)}$	1.0	A
	$I_{FSM(3)(t=1S)}$	0.5	A
Power Dissipation	$P_{tot}$	250	mW

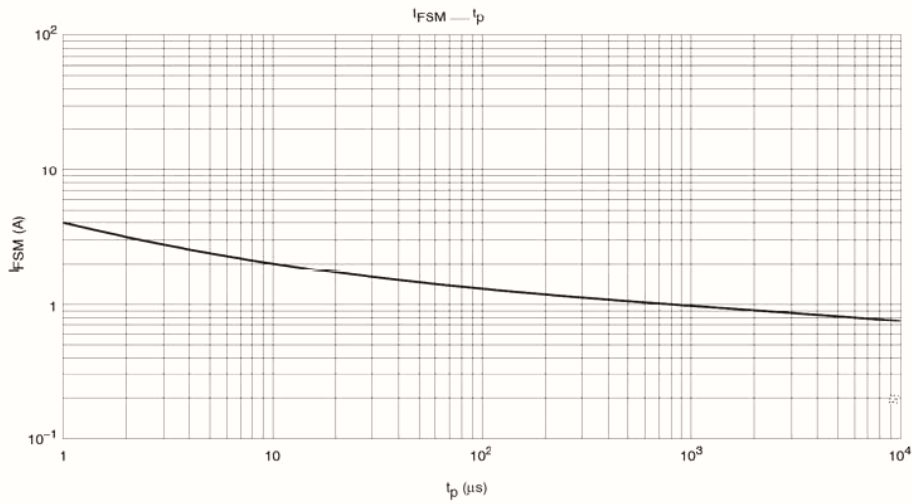
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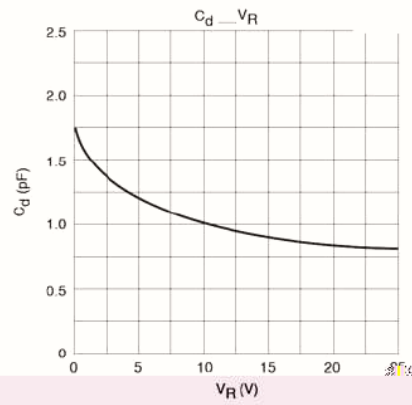
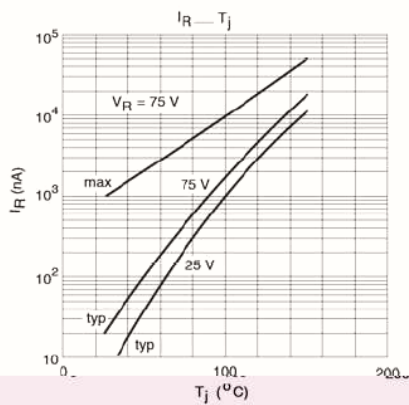
**/ Electrical Characteristic Curve**



(1)  $T_j = 150\text{ }^\circ\text{C}$ ; typical values  
(2)  $T_j = 25\text{ }^\circ\text{C}$ ; typical values.  
(3)  $T_j = 25\text{ }^\circ\text{C}$ ; maximum value

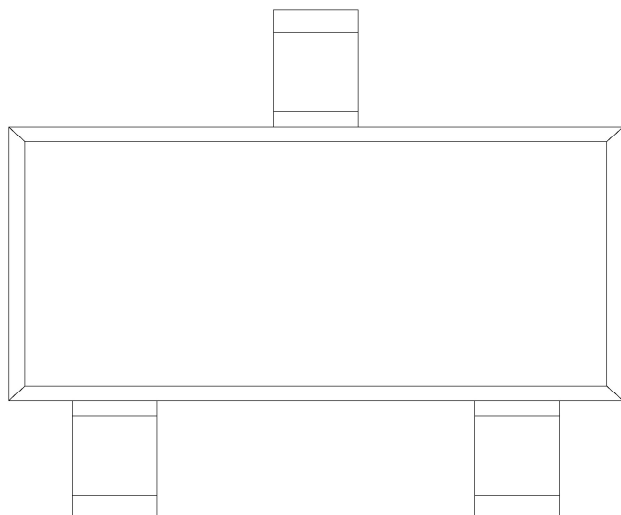


Based on square wave currents.  
 $T_j = 25\text{ }^\circ\text{C}$  prior to surge.

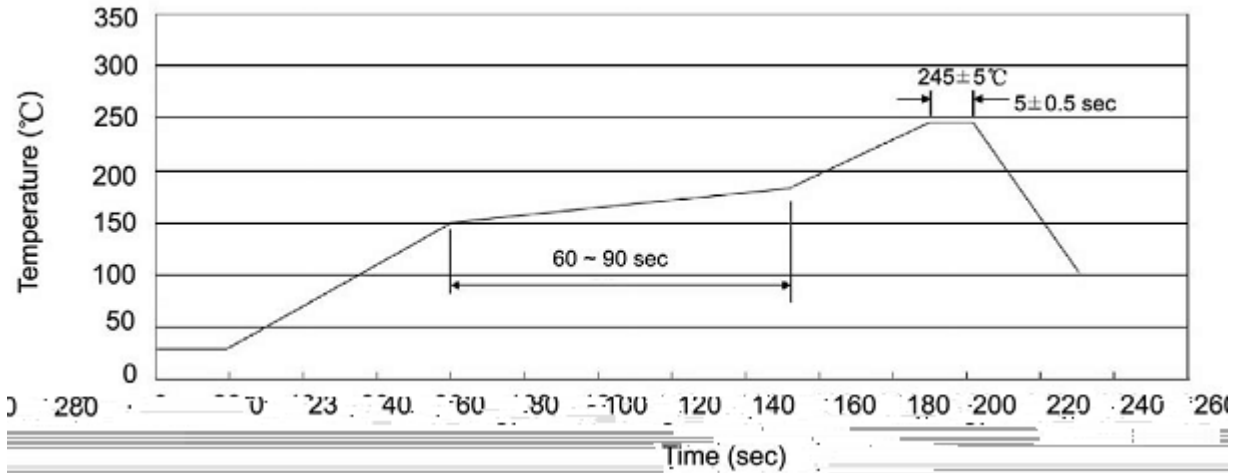




/ Marking Instructions



( ) /



Note:

- |   |     |     |    |          |   |
|---|-----|-----|----|----------|---|
| 1 | 25  | 150 | 60 | 90sec;   | 1.Preheating:25~150 , Time:60~90sec.    |
| 2 | 245 | 5   | 5  | 0.5sec;  | 2.Peak Temp.:245 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°C                      Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	Units/Reel 只/卷盘	Reels/Inner Box 卷盘/盒	Units/Inner Box 只/盒	Inner Boxes/Outer Box 盒/箱	Units/Outer Box 只/箱	Reel	Inner Box 盒	Outer Box 箱
SOT-23	3,000	10	30,000	6	180,000	7" ×8	180×120×180	390×385×205

/ Notices