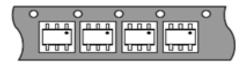
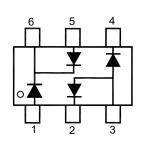
BAV756SDW

Silicon Epitaxial Planar Switching Diode

Features

- High speed
- High switching speed
- 注: 脚位紧邻编带圆孔侧(即与常规上带方向相反)







1. A1 2. C1 3. CA 4. C2 5. A2 6. CC SOT-363 Plastic package

Absolute Maximum Ratings (T_a = 25°C)

Parameter	Symbol	Value	Unit	
Repetitive Peak Reverse Voltage	V _{RRM}	90	V	
Reverse Voltage	V _R	90	V	
Continuous Forward Current Si All	I _F	250 100	mA	
Repetitive Peak Forward Current	I _{FRM}	500	mA	
Non-Repetitive Peak Forward Surge Cu	rrent at t = 1 µs at t = 1 ms at t = 1 s	I _{FSM}	4 1 0.5	A
Power Dissipation		P _D	350	mW
Operating Junction Temperature Range	Tj	- 55 to + 150	°C	
Storage Temperature Range	T _{stg}	- 55 to + 150	S	

Thermal Characteristics

Parameter	Symbol	Max.	Unit
Thermal Resistance from Junction to Ambient ¹⁾	$R_{ extsf{ heta}JA}$	357	°C/W

¹⁾ Device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.



Characteristics at T_a = 25°C

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 10 μA	V _{(BR)R}	90	-	V
Forward Voltage at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 50 \text{ mA}$ at $I_F = 150 \text{ mA}$	V _F	- - -	0.715 0.855 1 1.25	V
Reverse Current at $V_R = 25 V$ at $V_R = 80 V$ at $V_R = 25 V$, $T_j = 150^{\circ}C$ at $V_R = 80 V$, $T_j = 150^{\circ}C$	I _R	- - -	30 0.5 30 150	nA μA μA
Diode Capacitance at V _R = 0 V, f = 1 MHz	C _d	-	2	pF
Reverse Recovery Time at I_F = 10 mA, I_{rr} = 0.1 × I_R , V_R = 6 V, R_L = 100 Ω	t _{rr}	-	4	ns



BAV756SDW

Electrical Characteristics Curves

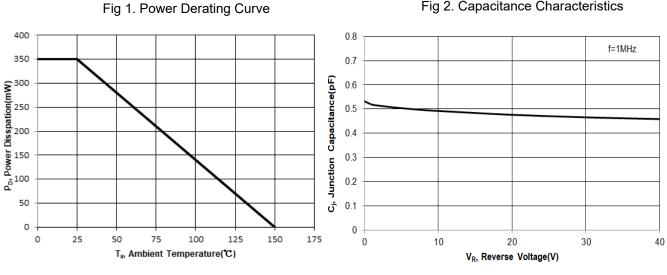


Fig 3. Reverse Characteristics

Fig 4. Forward Characteristics

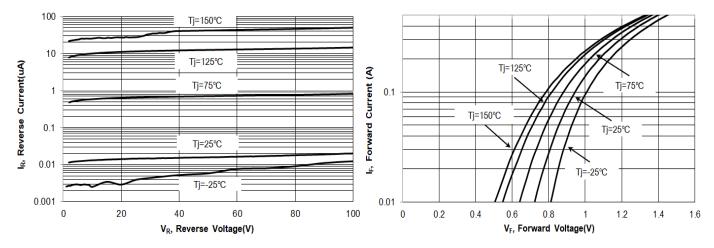
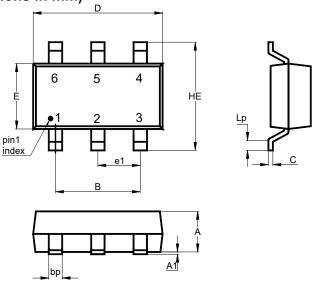




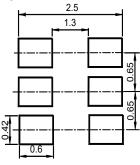
Fig 2. Capacitance Characteristics

Package Outline (Dimensions in mm)



Unit	А	A1	В	С	D	E	e1	HE	Lp	bp
-	1.0	0.1	1.3	0.25	2.2	1.35	0.65	2.2	0.4	0.3
mm	0.9	0	typ.	0.1	1.8	1.15	typ.	2.0	0.15	0.1

Recommended Soldering Footprint

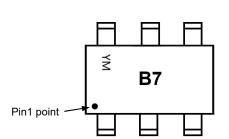


Packing information

	-	Tape Width (mm)	Pitch		Reel	Size	
	Package		mm	inch	mm	inch	Per Reel Packing Quantity
	SOT-363	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

Marking information

- " B7 " = Part No.
- " YM "= Date Code Marking " Y " = Year
- " M " = Month
- Font type: Arial



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SOT-363