

Small Signal Product

Hermetically Sealed Glass High Voltage Switching Diodes

FEATURES

- High voltage switching device
- Ideal for automated placement
- Hermetically sealed glass
- Compression bonded construction
- All external surfaces are corrosion resistant and leads are readily solderable
- RoHS compliant



MINI MELF





MECHANICAL DATA

- Polarity: Indicated by black cathode band

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)					
PARAMETER		SYMBOL	VALUE	UNIT	
Power Dissipation		P _D	500	mW	
Repetitive Peak Reverse Voltage		V _{RRM}	250	V	
Average Rectified Forward Current		I _{F(AV)}	200	mA	
Non-Repetitive Peak Forward	Pulse Width = 1.0 s		1.0	_	
Surge Current	Pulse Width = 1.0 µs	IFSM	4.0	A	
Operating and Storage Temperature Range		T _J , T _{STG}	-65 to +200	°C	

Electrical Characteristics

PARAM	IETER	SYMBOL	MIN	MAX	UNIT
Breakdown Voltage	BAV100 Ι _R = 100 μA		60		
	BAV101 Ι _R = 100 μA	Б	120	-	ν.
	BAV102 Ι _R = 100 μA	B _V	200		V
	BAV103 Ι _R = 100 μA		250		
Forward Voltage	I _F = 100 mA	V _F	-	1.0	V
Peak Reverse Current	BAV100 V _R = 50 V		-	100	
	BAV101 V _R = 100 V			100	
	BAV102 V _R = 150 V	I _R		100	nA
	BAV103 V _R = 200 V			100	
Thermal Resistance, Junction to Ambient		R _{θJA}	3	50	°C/W
Junction Capacitance	V _R = 0 , f = 1.0 MHz	CJ	-	5.0	pF
Reverse Recovery Time	(Note)	t _{rr}	-	50	ns

Notes : Reverse recovery test conditions : I_F = I_R = 30 mA , I_{rr} = 30 mA , R_L = 100 Ω



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RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)





Fig. 3 Differential Forward Resistance VS. Forward Current





ORDER INFORMATION (EXAMPLE)

BAV100 L0G



Green compound code Packing code Part no.

DIMENSIONS

MINI MELF



DIM.	Unit (mm)		Unit (inch)		
	Min	Max	Min	Max	
А	3.30	3.70	0.130	0.146	
В	1.40	1.60	0.055	0.063	
С	0.20	0.50	0.008	0.020	

SUGGESTED PAD LAYOUT



DIM.	Unit (mm)	Unit (inch)	
DIIVI.	Тур.	Тур.	
А	1.25	0.049	
В	2.00	0.079	
С	2.50	0.098	
D	5.00	0.197	



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Taiwan Semiconductor

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