

SEMICONDUCTOR

500 mW LL-34 Hermetically Sealed Glass – High Voltage Switching Diodes



Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{RRM}	Maximum Repetitive Reverse Voltage	250	V
T _{STG}	Storage Temperature Range	-65 to +200	°C
TJ	Operating Junction Temperature	200	°C
I _{F (AV)}	Average Rectified Forward Current	200	mA
I _{FSM}	Non-repetitive Peak Forward Current Pulse Width = 1.0 Second Pulse Width = 1.0 µsecond	1.0 4.0	A A

These ratings are limiting values above which the serviceability of the diode may be impaired.

DEVICE MARKING DIAGRAM



Cathode Band Color: Black

Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	500	mW
R _{0JA}	Thermal Resistance, Junction to Ambient	350	°C/W

Specification Features:

- LL-34 (Mini-MELF) Package
- Surface Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- All External Surfaces Are Corrosion Resistant And Terminals Are Readily Solderable
- RoHS Compliant
- Matte Tin (Sn) Lead Finish
- Color band Indicates Negative Polarity



ELECTRICAL SYMBOL

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter		Test Condition	Limits		Unit
Symbol			rest condition	Min	Max	Oillt
Bv	Breakdown Voltage T0	CBAV100	I _R =100μA	60		Volts
	TC	CBAV101		120		Volts
	TC	CBAV102		200		Volts
	TC	CBAV103		250		Volts
I _R	Reverse Leakage Current TO	CBAV100	V _R =50V		100	nA
	TC	CBAV101	V _R =100V		100	nA
	TC	CBAV102	V _R =150V		100	nA
	ТС	CBAV103	V _R =200V		100	nA
V _F	Forward Voltage		I _F =100mA		1.0	Volts
T _{RR}	Reverse Recovery Time		$I_F=I_R=30mA$,			
			R _L =100Ω		50	nS
			I _{RR} =3mA			
С	Capacitance		V _R =0V, f=1M _{HZ}		5.0	pF

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Package Outline

Package	Case Outline					
	← B →		LL-34			
		DIM	Millimeters		Inches	
LL34	A	-	Min	Max	Min	Max
		Α	3.30	3.60	0.130	0.142
	<u> </u>	В	1.40	1.50	0.055	0.059
	<u>*</u>	С	0.35	0.50	0.014	0.020

Notes:

- All dimensions are within DO213AC JEDEC standard. LL-34 polarity denoted by cathode band.
- 1. 2.

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NOTICE

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