

SEMICONDUCTOR

500 mW LL-34 Hermetically Sealed Glass Fast Switching Diodes

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
PD	Power Dissipation	500	mW	
T _{STG}	Storage Temperature Range	-65 to +150	°C	
TJ	Operating Junction Temperature	+150	°C	
Ww	Working Inverse Voltage	75	V	
lo	Average Rectified Current	150	mA	
I _{FM}	Non-repetitive Peak Forward Current	450	mA	
	Peak Forward Surge Current (Pulse Width = 1.0 µsecond)	2	А	

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

Specification Features:

- Fast Switching Device (T_{RR} < 4.0 nS)
- 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) Terminal Finish
- Color band Indicates Negative Polarity

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
Symbol	Falameter		Min	Max	UIII
Bv	Breakdown Voltage	I _R =5μA	75		Volts
I _R	Reverse Leakage Current	V _R =50V		50	nA
V _F	Forward Voltage	l _⊧ =50mA		1	Volts
T _{RR}	Reverse Recovery Time	I _F =I _R =10mA R _L =100Ω I _{RR} =1mA		4	nS
С	Capacitance	V _R =0V, f=1M _{HZ}		2	pF

SURFACE MOUNT LL34

DEVICE MARKING DIAGRAM



Cathode Band Color : Black



ELECTRICAL SYMBOL



SEMICONDUCTOR

Package Outline



Notes:

1. All dimensions are within DO213AC JEDEC standard.

2. LL-34 polarity denoted by cathode band.



NOTICE

The information presented in this document is for reference only. Tak Cheong reserves the right to make changes without notice for the specification of the products displayed herein.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of with would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Tak Cheong Semiconductor Co., Ltd., or anyone on its behalf, assumes no responsibility or liability for any damagers resulting from such improper use of sale.

This publication supersedes & replaces all information reviously supplied. For additional information, please visit our website <u>http://www.takcheong.com</u>, or consult your nearest Tak Cheong's sales office for further assistance.