

200 mW DO-35 Hermetically Sealed Glass Fast Switching Schottky Barrier Diode



Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation	200	mW
T_{STG}	Storage Temperature Range	-65 to +125	$^\circ\text{C}$
T_J	Operating Junction Temperature	+125	$^\circ\text{C}$
V_{RRM}	Repetitive Peak Reverse Voltage	30	V
V_R	Maximum DC Blocking Voltage	30	V
$I_{F(AV)}$	Average Forward Rectified Current	200	mA
I_{FSM}	Peak Forward Surge Current	4	A

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

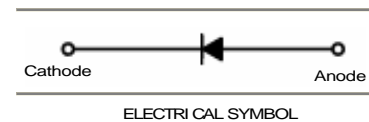
DEVICE MARKING DIAGRAM



L = Logo
Device Code = BAT42 / BAT43

Specification Features:

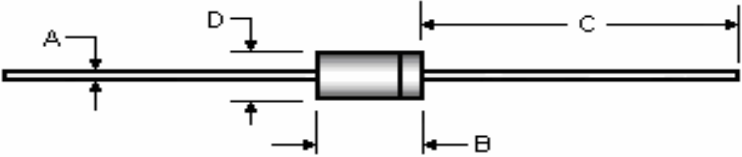
- Low Forward Voltage Drop
- DO-35 Package (JEDEC)
- Through-Hole Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- All External Surfaces Are Corrosion Resistant And Leads Are Readily Solderable
- RoHS Compliant
- Solder Hot Dip Tin (Sn) Lead Finish



Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Limits		Unit
			Min	Max	
B_V	Breakdown Voltage	$I_R=100\mu\text{A}$	30		Volts
I_R	Reverse Leakage Current	$V_R=25\text{V}$		500	nA
V_F	Forward Voltage	TCBAT42 $I_F=10\text{mA}$	0.26	0.40	Volts
		$I_F=50\text{mA}$		0.65	
		TCBAT43 $I_F=2\text{mA}$		0.33	
		$I_F=15\text{mA}$		0.45	
		TCBAT42, TCBAT43 $I_F=200\text{mA}$		1.0	
T_{RR}	Reverse Recovery Time	$I_F=I_R=10\text{mA}$ $R_L=100\Omega$ $I_{RR}=1\text{mA}$	5 (Typical)		nS
C	Capacitance	$V_R=1\text{V}$, $f=1\text{MHz}$	7 (Typical)		pF

Package Outline

Package	Case Outline				
DO-35					
	DO-35				
	DIM	Millimeters		Inches	
		Min	Max	Min	Max
	A	0.46	0.55	0.018	0.022
	B	3.05	5.08	0.120	0.200
C	25.40	38.10	1.000	1.500	
D	1.53	2.28	0.060	0.090	


Notes:

1. All dimensions are within JEDEC standard.

This datasheet presents technical data of Tak Cheong's Schottky Diode. Complete specifications for the individual devices are provided in the form of datasheets. A comprehensive Selector Guide is included to simplify the task of choosing the best set of components required for a specific application. For additional information, please visit our website <http://www.takcheong.com>.

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