



# HIGH SPEED SILICON SWITCHING DIODE AXIAL LEAD



## CT 40 TO CT 59 CT 70 TO CT 79

500mW

DO- 35 Glass Axial Package

## FEATURES

General Purpose Hermetically Sealed Glass Package Switching Diode

## ABSOLUTE MAXIMUM RATINGS (Ta=25°C unless specified otherwise)

DESCRIPTION	SYMBOL	VALUE	UNIT	
Average Rectified Current	I <sub>F(AV)</sub>	75	mA	
Peak Rectified Current	I <sub>FRM</sub>	200	mA	
Power Dissipation At T <sub>A</sub> =25°C	P <sub>TA</sub>	500	mW	
Derating Factor		2.86	mW/ºC	
Operating And Storage Junction	T <sub>j</sub> , T <sub>stg</sub>	-65 to +200	٥C	
Temperature Range				

### ELECTRICAL CHARACTERISTICS (Ta=25°C unless specified otherwise)

DEVICE	Peak Inverse	Min Forward	Max Reverse	Reverse	
	Voltage	Current	Current	Voltage	
	PIV	I <sub>F</sub> @ 1V	I <sub>R</sub> @ V <sub>R</sub>	(V <sub>R</sub> )	
	(V)	(mA)	(mA)	(V)	
CT40	25	10	0.1	20	
CT41	40	10	0.1	30	
CT42	50	10	0.1	40	
CT43	75	10	5.0	50	
CT44	100	10	5.0	75	
CT45	25	20	0.1	20	
CT46	40	20	0.1	30	
CT47	50	20	0.1	40	
CT48	75	20	5.0	50	
СТ49	100	20	5.0	75	
СТ50	25	10	0.1	20	
CT51	40	10	0.1	30	
CT52	50	10	0.1	40	
CT53	75	10	5.0	50	
CT54	100	10	5.0	75	
CT55	25	20	0.1	20	

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CT 40 TO CT 59 CT 70 TO CT 79



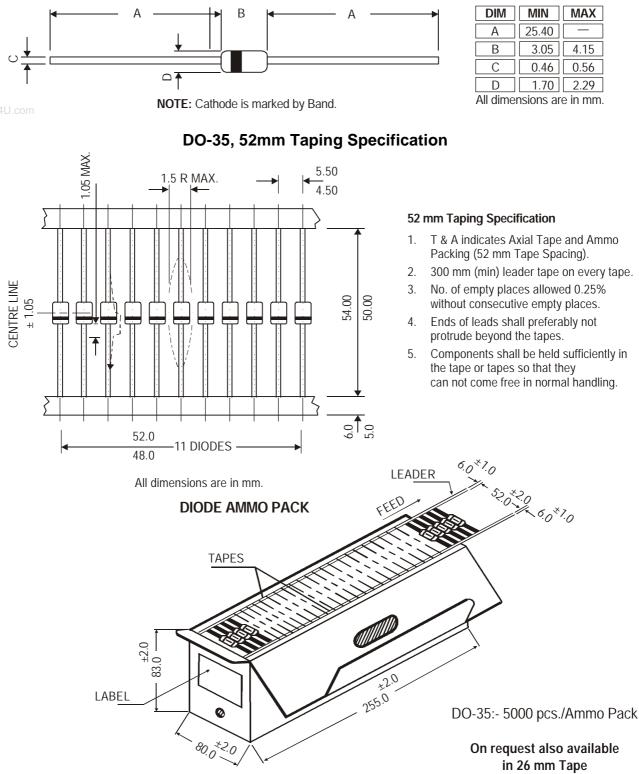
500mW

DO- 35 Glass Axial Package

DEVICE	Peak Inverse	Min Forward	Max Reverse	Reverse	
	Voltage	Current	Current	Voltage	
	PIV	I <sub>F</sub> @ 1V	I <sub>R</sub> @ V <sub>R</sub>	(V <sub>R</sub> )	
	(V)	(mA)	(Am)	(V)	
CT56	40	20	0.1	30	
CT57eet4U.com	50	20	0.1	40	
CT58	75	20	5.0	50	
СТ59	100	20	5.0	75	
CT70	25	50	0.1	20	
CT71	40	50	0.1	30	
CT72	50	50	0.1	40	
СТ73	75	50	5.0	50	
CT74	100	50	5.0	75	
CT75	25	100	0.1	20	
CT76	40	100	0.1	30	
CT77	50	100	0.1	40	
CT78	75	100	5.0	50	
СТ79	100	100	5.0	75	

DESCRIPTION	SYMBOL	TEST CONDITION	VALUE		UNIT
			MIN	MAX	
Diode Capacitance	C <sub>d</sub>	V <sub>R</sub> =0, f=1MHz CT 40 TO CT 49 CT 50 TO CT 79		4 2	pF pF
Reverse Recovery Time	t <sub>rr</sub>	$I_R = 10$ mA, $V_R = 6$ V, $R_L = 100\Omega$		4	ns

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**DO-35 Glass Axial Package** 

## Packing Detail

PACKAGE	STANDARD PACK		INNER CARTON BOX		OUTER CARTON BOX		
	Details	Net Weight/Qty	Size	Qty	Size	Qty	Gr Wt
DO-35 T&A	5K/ammo box	0.88 kg/5K pcs	10" x 3.2" x 3.2"	5K	12.7" x 12.7" x 20"	125K	25 kgs

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#### **Component Disposal Instructions**

- 1. CDIL Semiconductor Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
- 2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

### **Customer Notes**

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### Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the Device(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual Discrete Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s).

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Data Sheet