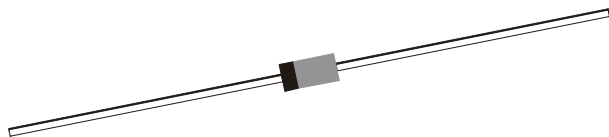


SILICON GENERAL PURPOSE DIODE AXIAL LEAD

CT282 TO CT287
40V to 325V, 0.2A

500mW

DO- 35
Glass Axial Package



FEATURES

General IPurpose , Industrial, Military And Space Application , Hermetically Sealed Glass With A Stud On Either Side Of The Glass Passivated Chip Provides Excellent Stability Extremely Low Leakave And Very High Reliability.

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

DESCRIPTION	SYMBOL	CT 282	CT 283	CT 284	CT 285	CT 286	CT 287	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	40	80	150	200	250	325	V
Reverses Voltage (Continuous)	V_R	36	70	130	180	225	300	V
Repetitive Peak Forward Current	I_{FM}			650				mA
Non Repetitive Peak Surge Current (8.3ms)	I_{FSM}			2				A
Average Rectified Current	I_O^*							
	$T_A = 25^\circ\text{C}$			200				mA
	$T_A = 150^\circ\text{C}$			50				mA
Operating And Storage Junction Temperature Range	T_j, T_{stg}			-65 to +200				$^\circ\text{C}$
Power Dissipation	P_D			500				mW
Derate At 1.2mA DC/ $^\circ\text{C}$ Between Ambient Temperatures of 25° C and 150°C								
Derate At 1.0mA DC/ $^\circ\text{C}$ Between Ambient Temperatures of 150° C and 200°C								

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

DESCRIPTION	SYMBOL	TEST CONDITION	VALUE	UNIT
Forward Voltage	V_F	$I_F = 100\text{mA DC}, P_W = 10\text{ms}$ Duty Cycle 2% Max	<1	V
Reverse Current	I_R	$V_R = V_R$ (Continuous) $V_R = V_R$ (Continuous), $T_A = 150^\circ\text{C}$	<25 <5	nA μA
Breakdown Voltage	V_{BR}	$I_R = 100\mu\text{A}$		
	CT282		>40	V
	CT283		>80	V
	CT284		>150	V
	CT285		>200	V
	CT286		>250	V
	CT287		>325	V

DESCRIPTION	SYMBOL	TEST CONDITION	VALUE	UNIT
Diode Capacitance	C_d	$V_R = 10\text{V}$		
	ALL	typ	2	pF

* Pulse Width $\leq 300\mu\text{s}$, Duty Cycle $\leq 2\%$

DO- 35

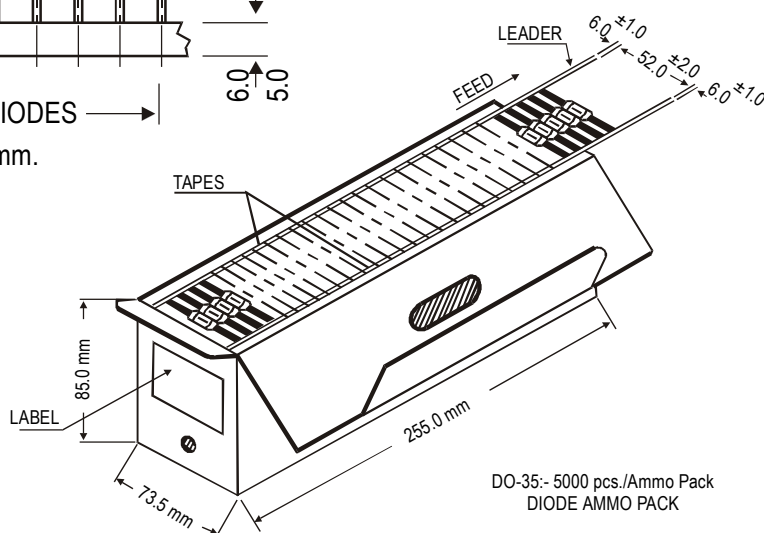
Glass Axial Package

A diagram of a horizontal beam with a central support. The beam is divided into two segments, each of length A , by a central support labeled B . The left end of the beam is labeled C , and the right end is labeled D . The beam is supported by a central support labeled B . The segments are labeled A and B .

DIM	MIN	MAX
A	25.40	—
B	3.03	4.44
C	0.46	0.56
D	1.52	2.29

[illegible]

1. T & A indicates Axial Tape & Ammo packing (52 mm Tape Spacing).
2. 300 mm (min) leader tape on every spool.
3. No. of empty places allowed 0.25% without consecutive empty places.
4. Ends of leads shall preferably not protrude beyond the tapes.
5. Components shall be held sufficiently in the tape or tapes so that they can not come free in normal handling.



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 3.5" x 3.5"	5K	12.7" x 12.7" x 20"	125K	25 kgs

Disclaimer

The product information and the selection guides facilitate selection of the CDIL's Discrete 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 is 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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