



HIGH SPEED SILICON SWITCHING DIODE



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

DESCRIPTION	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V _{RRM}	75	V
Continuous Reverse Voltage	V _R	75	V
Average Rectified Forward Current	l _F (av)	150	mA
Forward Current (DC)	I _F	200	mA
Repetitive Peak Forward Current	I _{FRM}	450	mA
Non Repetitive Peak Forward Current t <u><</u> 1 μs	I _{FSM}	2000	mA
t <u><</u> 1 s	I _{FSM}	500	mA
Power Dissipation up to Tamb=25 °C	P _{tot}	500	mW
Operating & Storage Junction Temperature Range	T _j , T _{stg}	- 65 to +200	°C

Thermal Resistance

Junction to Ambient Lead Length 5mm	R _{th} (j-a)	350	K/W	
Junction to Tie-Point Lead Length 5mm	R _{th} (j-t)*	120	K/W	
*Device recorded an empirical close of the end with each metallication med				

*Device mounted on a printed circuit-board without metallization pad.

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

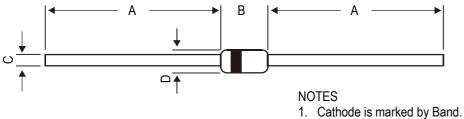
DESCRIPTION	SYMBOL	TEST CONDITION	MIN	MAX	UNIT	
Forward Voltage	V _F	I _F =10mA		1.0	V	
Reverse Current	I _R	V _R =20V		25	nA	
		V _R =20V, T _i =150° C		50	μA	
		V _R =75V		5.0	μA	
Reverse Breakdown Voltage	V _{BR}	I _R =100μA	75		V	
DYNAMIC CHARACTERISTICS						
Diode Capacitance	C _d	V _R =0V, f=1MHz		4.0	pF	
Forward Recovery Voltage	V _{fr}	I _F =100mA, t <u>r<</u> 30ns	mA, t <u>r<</u> 30ns		V	
Reverse Recovery Time	t _{rr}	I _F =10mA, to I _R =60mA		4.0	ns	
		R _L =100 Ω				
		Measured @ I _R =1mA				

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DO- 35 Glass Axial Package

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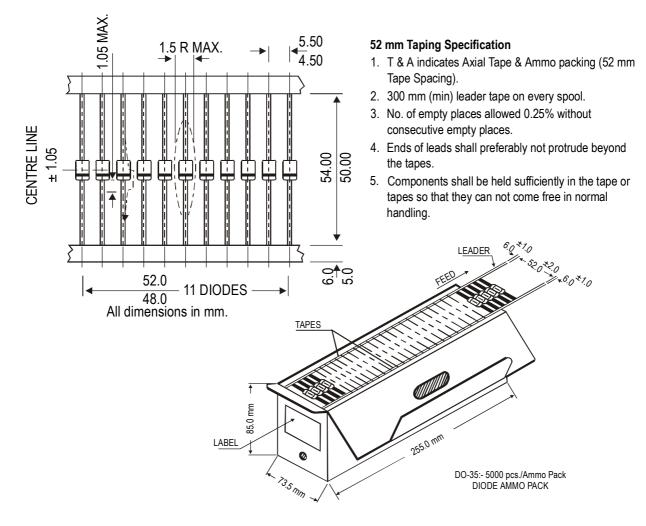
DO-35 Hermetically Sealed, Glass Axial Package



2. All dimensions are in mm.

DIM	MIN	МАХ
Α	25.40	_
В	3.03	4.44
С	0.46	0.56
D	1.52	2.29

DO-35, 52mm Taping Specification



On request also available in 26 mm Tape and Ammo Pack

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

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DO- 35 Glass Axial Package

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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CD4531Rev221101