

Switching Diode

Features

- Fast switching speed
- Electrically indential to standard JEDEC
- High Conductance
- Axial lead package ideally suited for automatic insertion



DO-35

Mechanical Data

- Case: Molded Glass DO-35
- Terminals: Solderable per MIL-STD-202E, Method 208
- Polarity: Color band denotes cathode
- Mounting position: Any
- Approx. Weight: approx. 0.13 gram



Maximum Ratings and Electrical Characteristics $T_A=25^{\circ}\text{C}$ unless otherwise specified

Symbol	Parameters		1N914	1N914A	1N914B	Unit	Condition
V _R	Reverse Voltage		75			V	
V _{RM}	Peak Reverse Voltage		100			V	
V _{RMS}	RMS Voltage		50			V	
I _{AV}	Maximum Average Forward Current		150			mA	at f ≥ 50Hz
I _{FSM}	Surge Forward Current		500			mA	at tp< 1s
P _{TOT}	Power Dissipation		500			mW	
V _F	Maximum Forward Voltage	Min	---	---	0.62 @ 5mA	V	
		Max	1.0 @ 10mA	1.0 @ 20mA	0.72 @ 5mA		
					1.0 @ 100mA		
I _R	Maximum Leakage Current		25			nA	at V _R = 20V
			5.0			μA	at V _R = 75V
C _J	Maximum Capacitance (Note 1)		4			pF	VR=0, f=1MHz
T _{RR}	Maximum Reverse Recovery Time		4			ns	IF=10mA to I _R =1mA, V _R =6V, R _L =100Ω
T _J , T _{STG}	Junction and Storage Temperature Range		-65 to +175			°C	

Ratings and Characteristics Curves

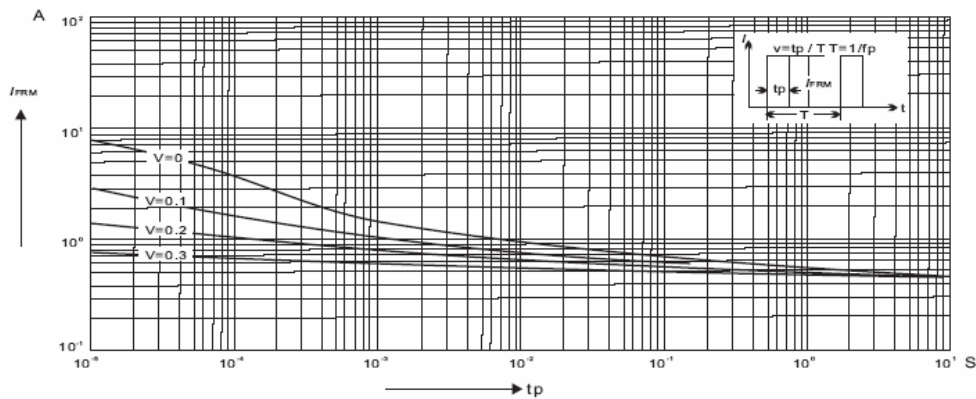


Fig.1 ADMISSIBLE REPETITIVE PEAK FORWARD CURRENT VERSUS PULSE DURATION

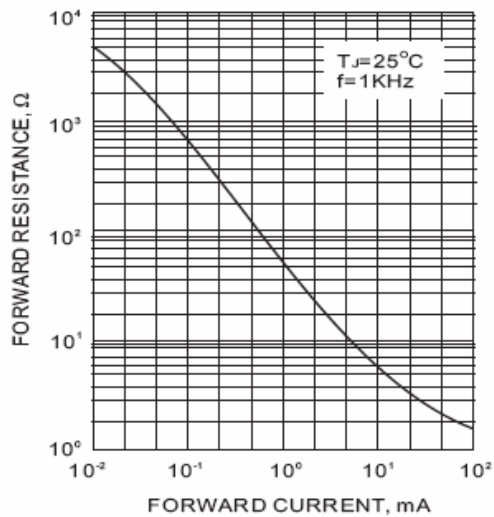


Fig.2 DYNAMIC FORWARD RESISTANCE VS FORWARD CURRENT

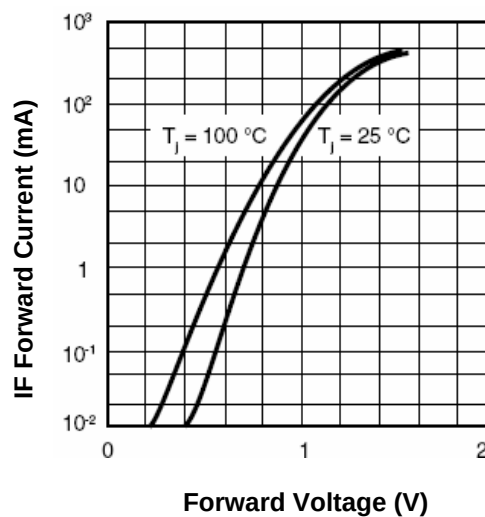
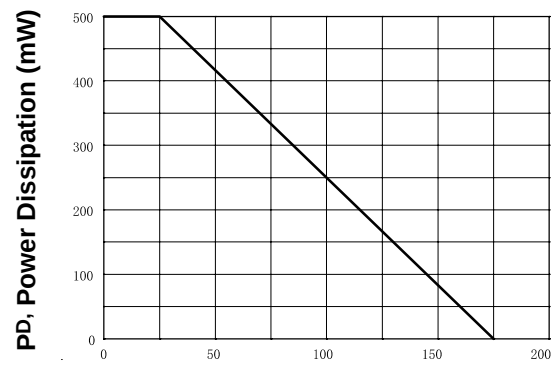


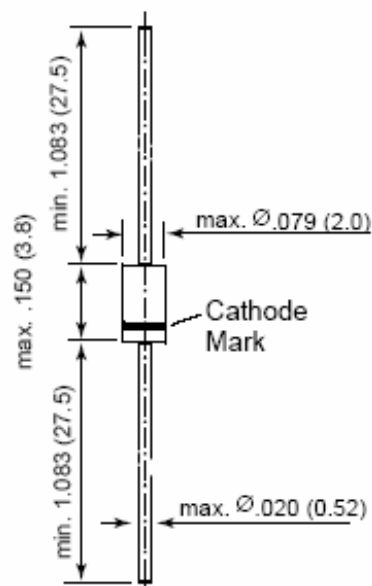
Fig.3 FORWARD CHARACTERISTICS



Ta, Ambient Temperature (°C)

Fig.4 DERATING CURVE

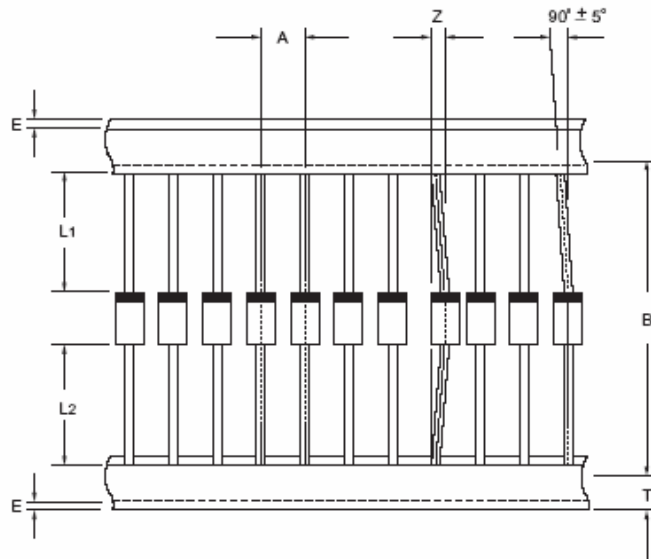
Dimensions in inch (mm)



DO-35

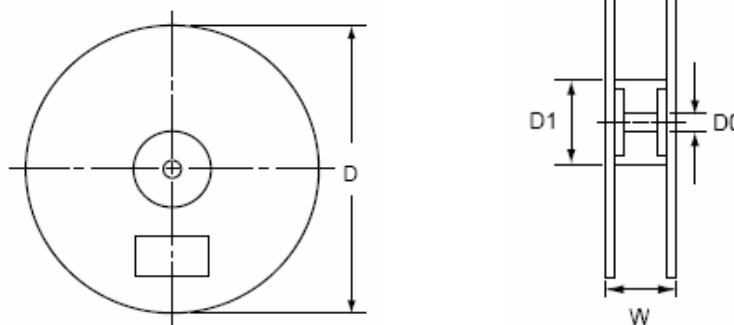
Packing Information

Taping Information (in mm)



Components Outline	A	B	L1,L2	T	E	Z
DO-35	5±0.5	52±1	Max.1.0	6±0.4	Max.0.8	Max.1.2

Reel Dimensions (in mm)



D	D0	D1	W
360	16.6	85.7	77

Packing Quantity Information:

Quantity	PCS per Inner Box	PCS per Carton
14' Tape & Reel (TR40)	10000/Reel	50000
Bulk (BL)	2000	120000

Carton Size Information:

Carton Size (in mm)	
TR40	360X360X395
BL	406X335X257

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