

## 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 $f \geq 50\text{Hz}$
$I_{FSM}$	Surge Forward Current		500			mA	at $t_p < 1\text{s}$
$P_{TOT}$	Power Dissipation		500			mW	
$V_F$	Maximum Forward Voltage	Min	---	---	0.62 @ 5mA	Volts	
		Max	1.0 @ 10mA	1.0 @ 20mA	0.72 @ 5mA		
					1.0 @ 100mA		
$I_R$	Maximum Leakage Current		25			nA	at $V_R = 20\text{V}$
			5.0			$\mu\text{A}$	at $V_R = 75\text{V}$
$C_J$	Maximum Capacitance (Note 1)		4			pF	$V_R=0, f=1\text{MHz}$
$T_{RR}$	Maximum Reverse Recovery Time		4			ns	$I_F=10\text{mA}$ to $I_R=1\text{mA}$ , $V_R=6\text{V}$ , $R_L=100\Omega$
$T_J, T_{STG}$	Junction and Storage Temperature Range		-65 to +175			$^{\circ}\text{C}$	$^{\circ}\text{C}$

Ratings and Characteristics Curves

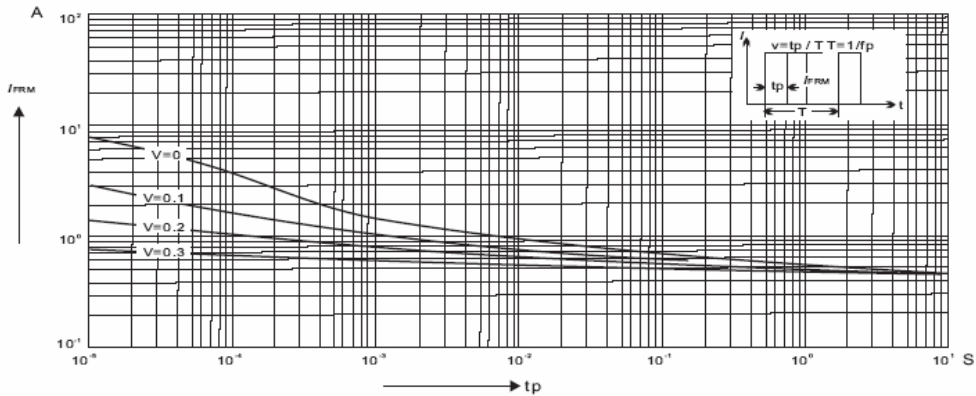


Fig.1 ADMISSIBLE REPETITIVE PEAK FORWARD CURRENT VERSUS PULSE DURATION

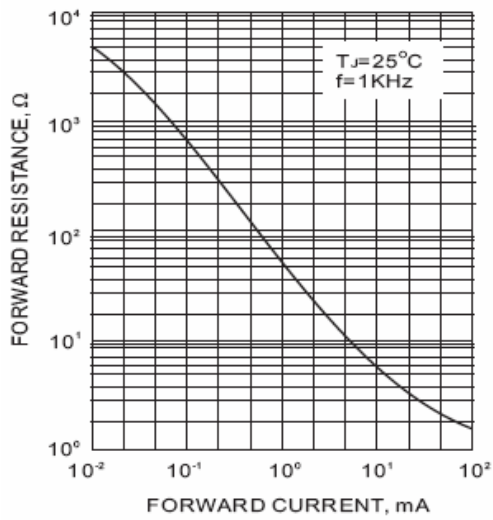


Fig.2 DYNAMIC FORWARD RESISTANCE VS FORWARD CURRENT

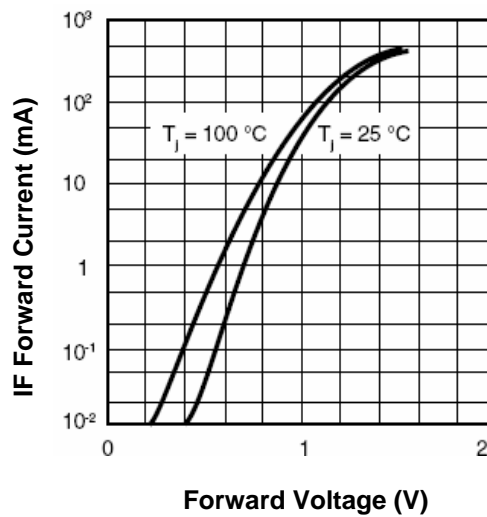


Fig.3 FORWARD CHARACTERISTICS

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## 1N914/1N914A/1N914B

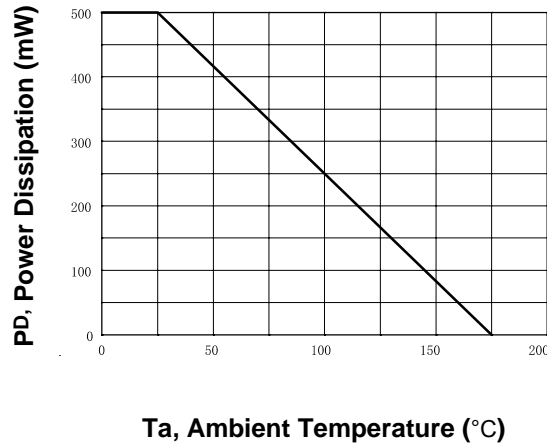
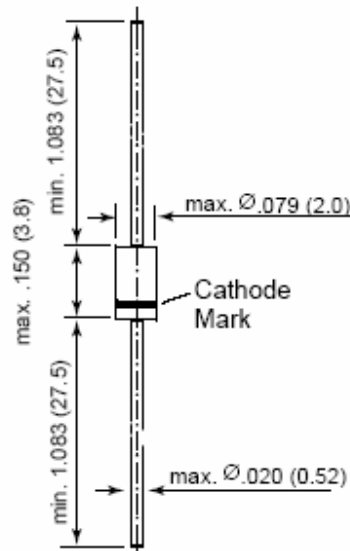


Fig.4 DERATING CURVE

### Dimensions in inch (mm)



### DO-35

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