

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			μA	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

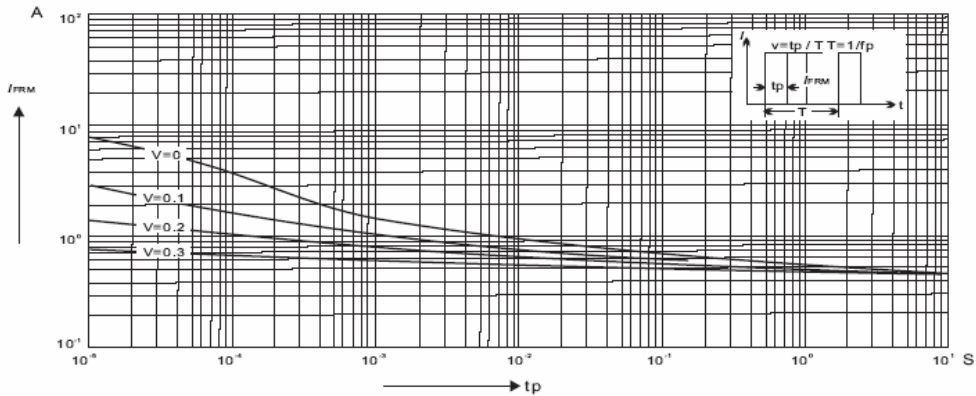


Fig.1 ADMISSIBLE REPETITIVE PEAK FORWARD CURRENT VERSUS PULSE DURATION

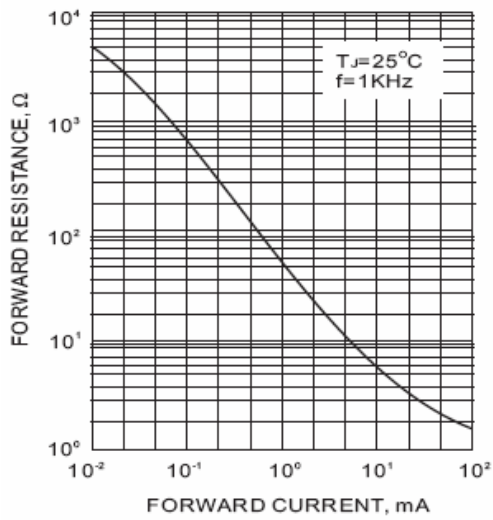


Fig.2 DYNAMIC FORWARD RESISTANCE VS FORWARD CURRENT

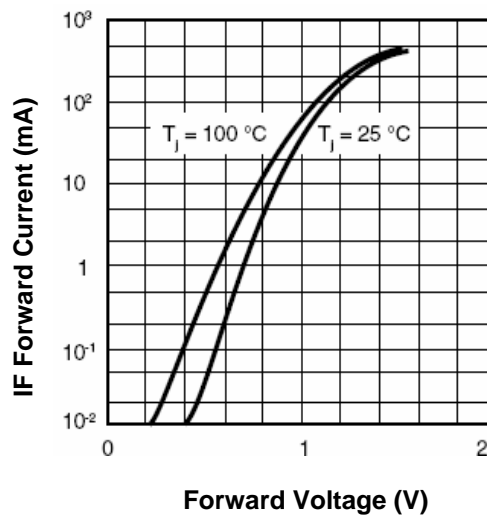


Fig.3 FORWARD CHARACTERISTICS

Switching Diode

1N914/1N914A/1N914B

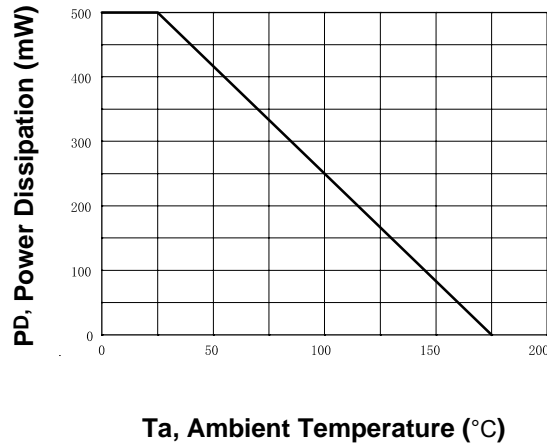
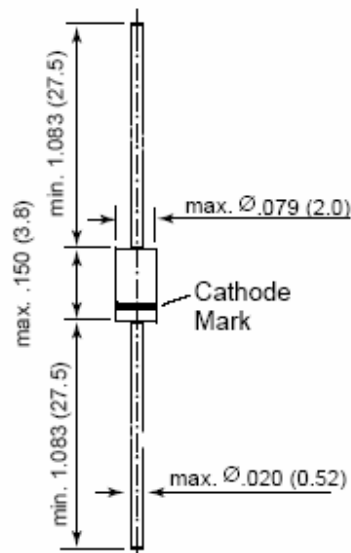


Fig.4 DERATING CURVE

Dimensions in inch (mm)



DO-35

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 247-2232 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.
42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONETS INCORPORATED E REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001
BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONETS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

CROSS REGION PLAZA, 899 LINGLING ROAD, SUITE 18C, SHANGHAI, 200030, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931