

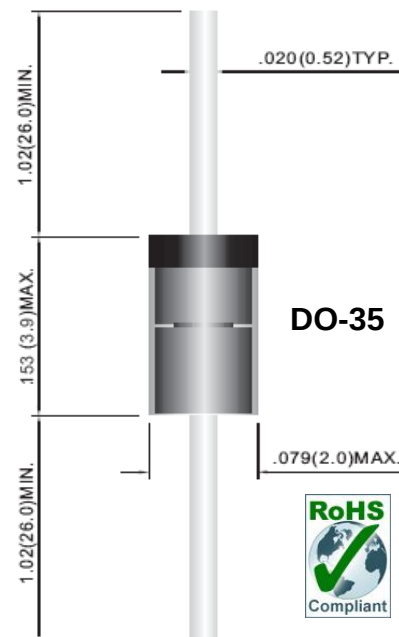
High Voltage Switching Diodes

Features

- Fast Switching Speed
- High Conductance
- Electrically Identical to JEDEC
- RoHS compliant

Mechanical Data

Case:	DO-35, Molded Glass
Terminals:	Axial leads, solderable per MIL-STD-202, Method 208
Weight:	0.0047 ounces, 0.132 gram



Maximum Ratings ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	BAV19	BAV20	BAV21	Unit	Conditions
VRM	Reverse Voltage	100	150	200	V	
VRRM	Peak Reverse Voltage	120	200	250	V	
IF(AV)	Forward Rectified Current	200			mA	Resistive Load and $f \geq 50\text{Hz}$
IFSM	Non-repetitive Peak Forward Surge Current	1			A	$t_p=1\text{s}$
PD	Power Dissipation above $25^{\circ}C$	500			mW	
TJ, TSTG	Operating Junction and Storage Temperature Range	-55 to +150			$^{\circ}C$	

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	BAV19	BAV20	BAV21	Unit	Conditions
VF	Maximum Forward Voltage	1.0			V	$I_F = 0.1\text{ A}$
IR	Maximum Reverse Current at Rated DC Blocking Voltage	0.1			μA	$T_j = 25^{\circ}C$
trr	Maximum Reverse Recovery Time	50			ns	From $I_F = 30\text{mA}$ to $I_R = 3\text{mA}$, $V_R = 6\text{V}$, $R_L = 100\Omega$
CJ	Typical Junction Capacitance	3			pf	$V_R = 0\text{V}$, $f = 1\text{MHz}$
Rθ-JA	Typical Thermal Resistance	350			$^{\circ}C/W$	Thermal Resistance from Junction to Ambient

Typical Characteristics Curves

Fig.1 Dynamic Forward Resistance vs. Forward Current

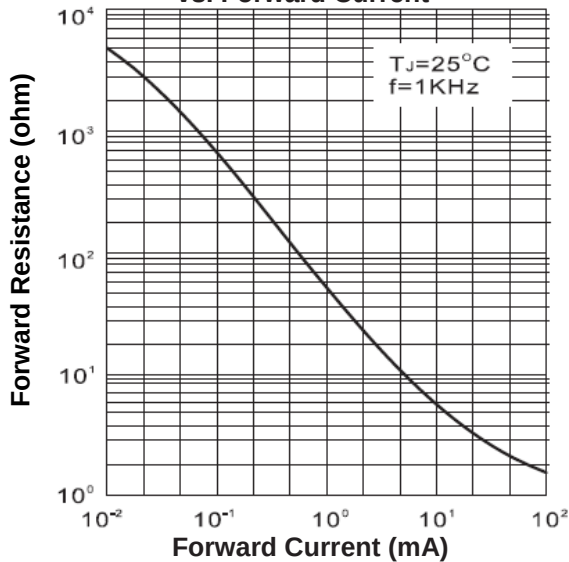


Fig.2 Forward Characteristics

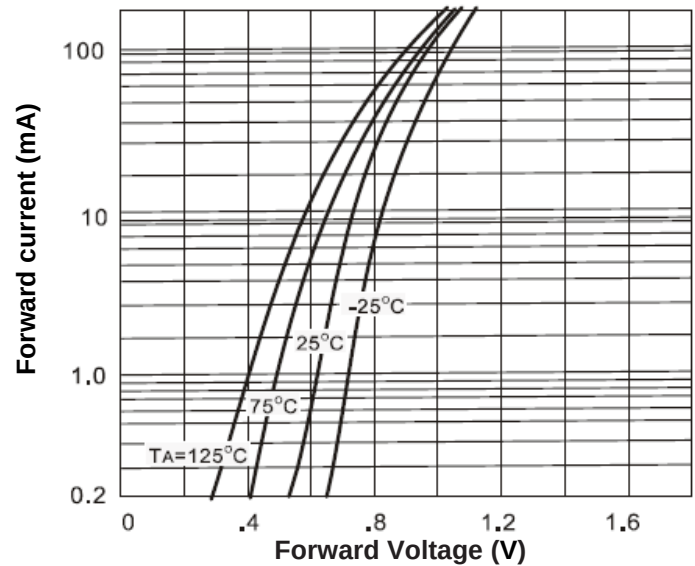


Fig.3 Derating Curve

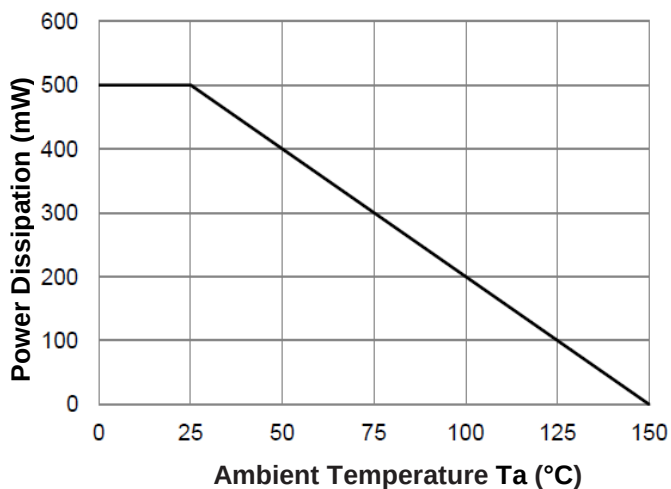


Fig.4 Typical Junction Capacitance

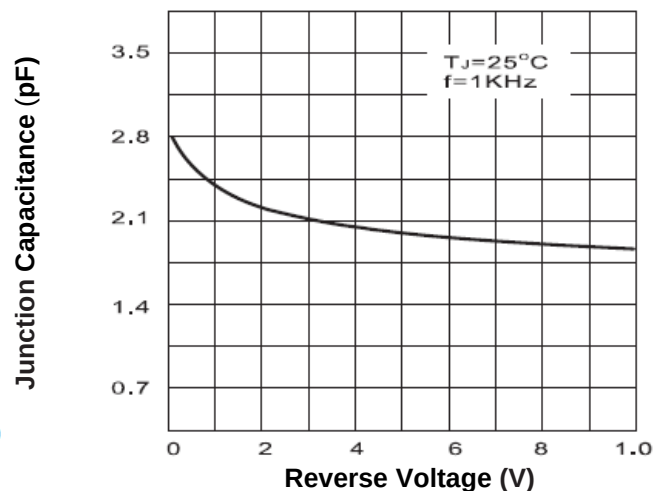
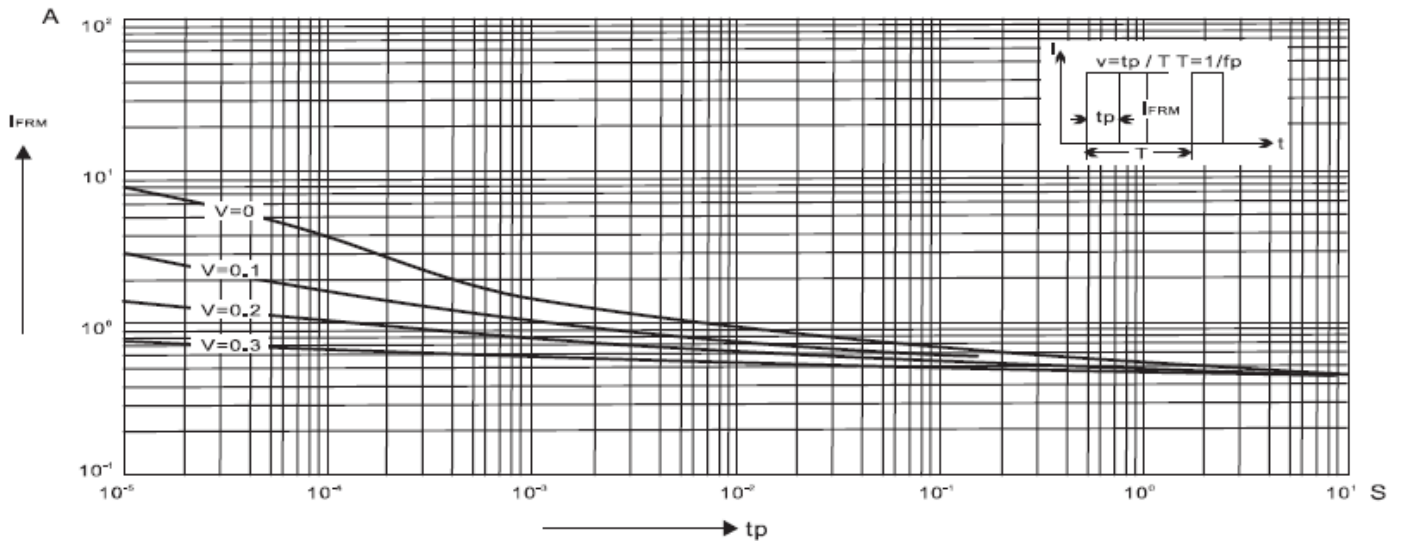
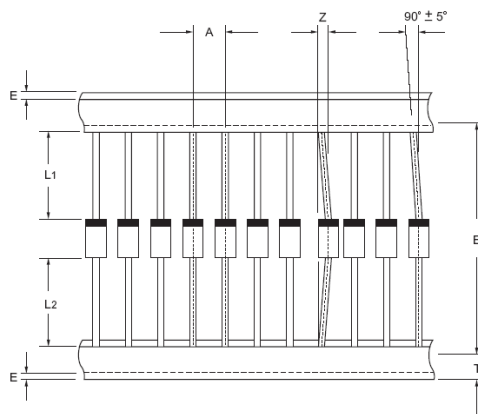


Fig.5 Admissible Repetitive Peak Forward Current vs. Pulse Duration



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

Packing Quantity Information:

Quantity	PCS per Reel
TR30 Tape & Reel	10,000/Reel

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