

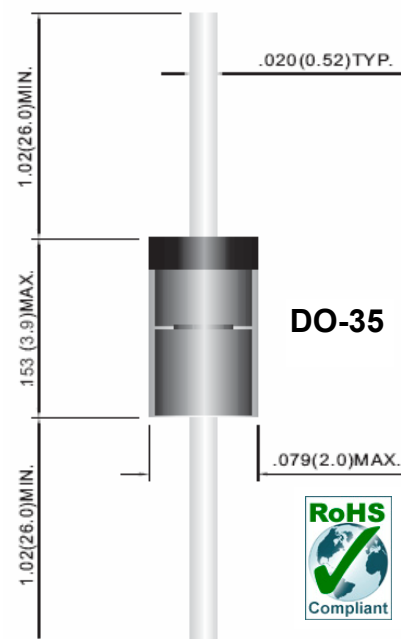
High Voltage Switching Diodes

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:	0.13 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	4			A	$t_p=1\mu\text{s}$ $T_j=25^{\circ}C$
		1			A	$t_p=1\text{s}$ $T_j=25^{\circ}C$
PD	Power Dissipation above $25^{\circ}C$	500			mW	
TJ, TSTG	Operating Junction and Storage Temperature Range	-65 to +175			$^{\circ}C$	

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

Symbol	Description	BAV19	BAV20	BAV21	Unit	Conditions
VF	Forward Voltage	1.0			V	$I_F=0.1\text{A}$
IR	Reverse Current at Rated DC Blocking Voltage	0.1			μA	$T_j=25^{\circ}C$
		100				$T_j=150^{\circ}C$
trr	Reverse Recovery Time	50			ns	From $I_F=10\text{mA}$ to $I_R=1\text{mA}$, $V_R=6\text{V}$, $R_L=100\Omega$
CJ	Typical Junction Capacitance	5			pf	$V_R=0\text{V}$, $f=1\text{MHz}$
Rθ-JA	Max. Thermal Resistance	300			$^{\circ}C/W$	Thermal Resistance from Junction to Ambient

Typical Characteristics Curves

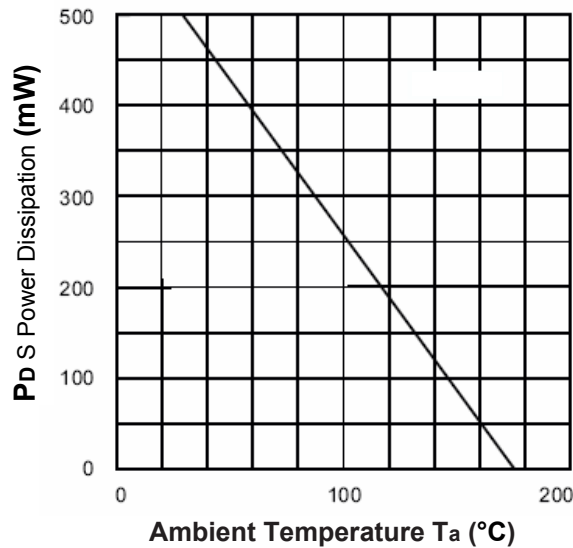


Fig.1- Power Derating Curve

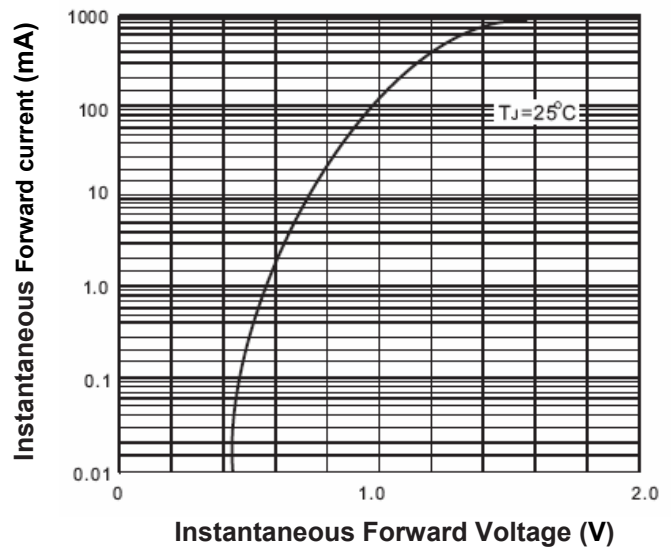


Fig.2- Typical Forward Characteristics

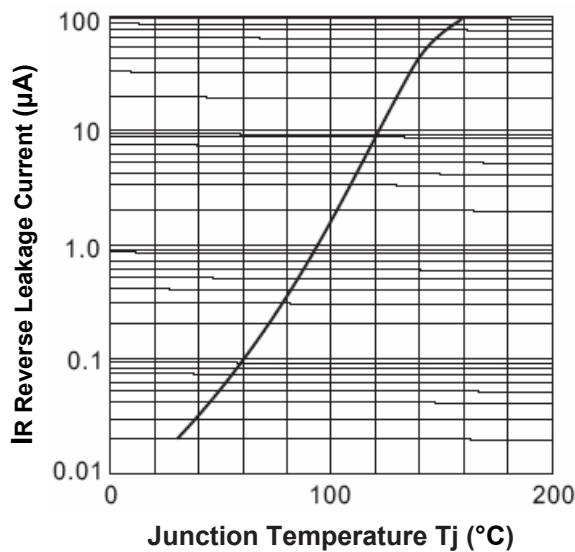


Fig.3- Leakage Current VS Junction Temperature

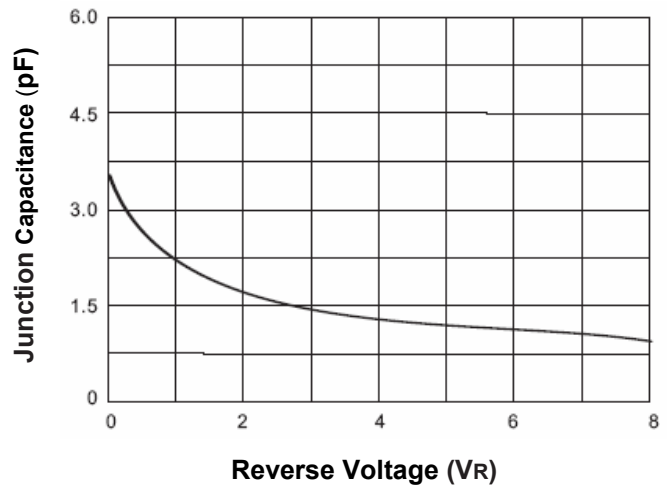
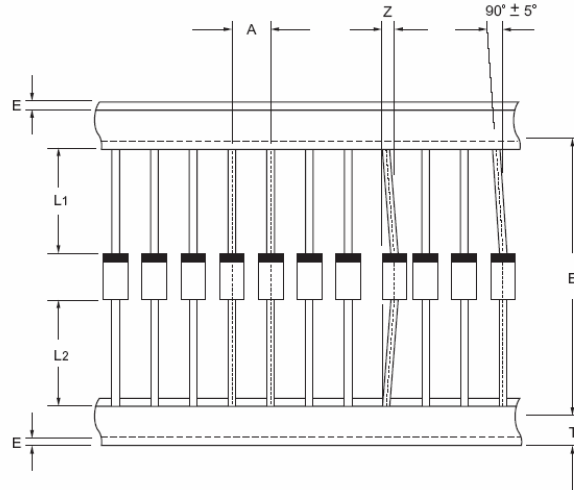


Fig.4- Typical Junction Capacitance

High Voltage Switching Diodes

BAV19~BAV21

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

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