

SWITCHING DIODES

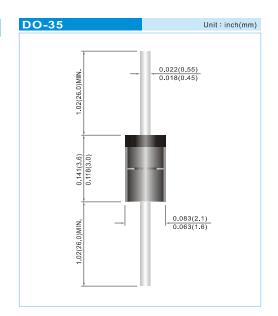
VOLTAGE 120~250 Volt POWER 500 mWatt

FEATURES

- · Fast switching Speed
- Electrically Identical to Standard JEDEC
- High Conductance
- Axial lead Package Ideally Suited for Automatic Insertion
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: Molded Glass DO-35
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0047 ounces, 0.132 grams
- Ordering information : Suffix : " -35 " to order DO-35 Package
- Packing information
 - B 2K per Bulk box
 - T/R 10K per 13" plastic Reel
 - T/B 5K per horiz. tape & Ammo box



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TJ = 25°C unless otherwise noted)

PARAMETER	SYMBOL	BAV19	BAV20	BAV21	UNITS
Reverse Voltage	V _R	100	150	200	V
Peak Reverse Voltage	V _{RM}	120	200	250	V
Rectified Current (Average), Half Wave Rectification with Resistive Load andf≥=50Hz	I _{F(AV)}		m A		
Peak Forward Surge Current,1s	I _{FSM}		А		
Power Dissipation Derate Above 25°C	P _{tot}		mW		
Maximum Forward Voltage at 0.1A	V _F		V		
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25°C	I _R		μА		
Typical Junction Capacitance (Notes1)	C	3			pF
Maximum Reverse Recovery (Notes2)	t _{rr}	50			ns
Typical Thermal Resistance	$R_{_{\theta JA}}$	350			°C / W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150			°C

NOTE:

- 1. CJ at VR=0, f=1MHZ
- 2. From I_F=30mA to I_R=-3mA, V_R=6Volts, R_L=100 Ω

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APPROVE SHEET ISSUE DATE: April 29,2014



RATING AND CHARACTERISTIC CURVES

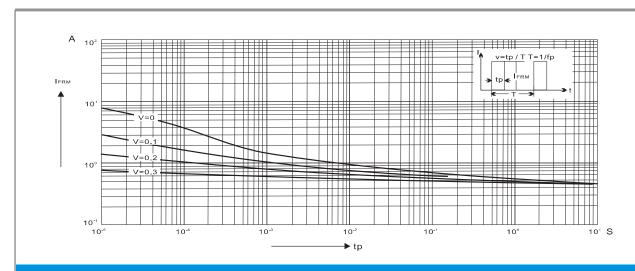


Fig.1 ADMISSIBLE REPETITIVE PEAK FORWARD CURRENT VERSUS PULSE DURATION

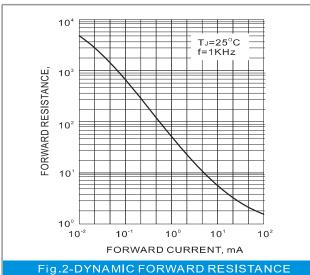


Fig.2-DYNAMIC FORWARD RESISTANCE VERSUS FORWARD CURRENT

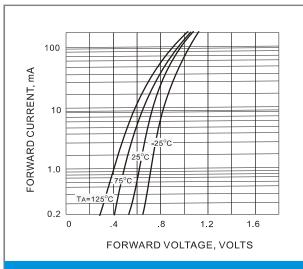
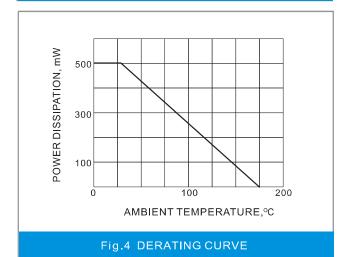
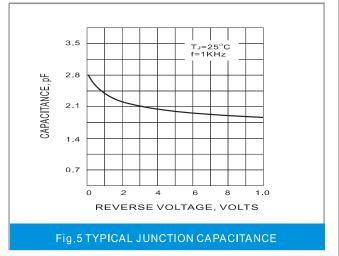


Fig.2 FORWARD CHARACTERISTICS





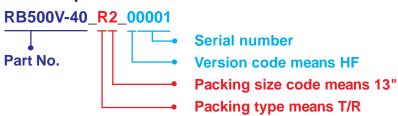
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Part No_packing code_Version

BAV19_AX_100A1 BAV19_AY_100A1 BAV19_R2_100A1 BAV19_B0_100A1

For example:



Packing Code XX				Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code	
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number	
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number	
Bulk Packing (B/P)	В	13"	2				
Tube Packing (T/P)	Т	26mm	X				
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				

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