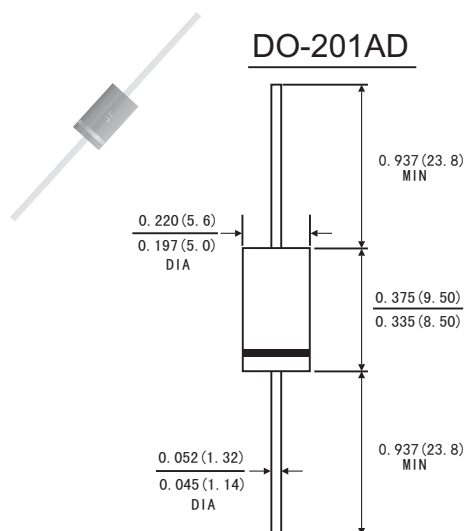


FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

MECHANICAL DATA

- Case: JEDEC DO-201AD molded plastic body
- Terminals: Plated axial lead solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Weight: 1.2 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave 60Hz,,resistive or inductive load. For capacitive load, derate by 20%.)

	Symbols	BY 251	BY 252	BY 253	BY 254	BY 255	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	200	400	600	800	1300	Volts
Maximum RMS Voltage	VRMS	140	280	420	560	910	Volts
Maximum DC Blocking Voltage	VDC	200	400	600	800	1300	Volts
Maximum average Forward Rectified Current	I(AV)	3.0					Amps
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	IFSM	150.0					Amps
Maximum Instantaneous Forward Voltage at 3.0 A	VF	1.0					Volts
Maximum Reverse current at rated DC Blocking Voltage	TA=25°C	IR	5.0				µA
	TA=100°C		100.0				
Maximum Full Load Reverse Current, Full Cycle Average .375" (9.5mm)Lead Length @TA=75°C			30				µA
Typical Junction Capacitance (Note 1)	CJ	40.0					pF
Typical Thermal Resistance (Note 2)	RθJA	40.0					°C/W
Operating and Storage temperature Range	TJ TSTG	-55 to+150					°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D. C

2. Mount on Cu-Pad Size 16mm 16MM on P. C. B.

RATINGS AND CHARACTERISTIC CURVES BY251 THRU BY255

FIG.1-FORWARD CURRENT DERATING CURVE

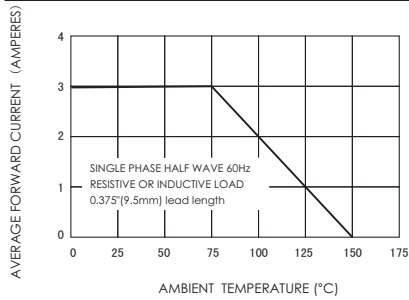


FIG.2-TYPICAL INSTANTANEOUS FORWARD VOLTAGE.(V)

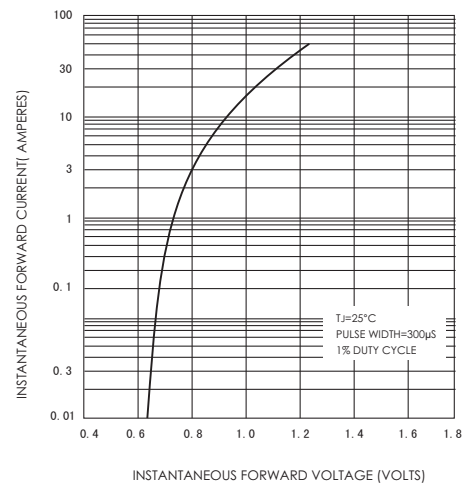


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

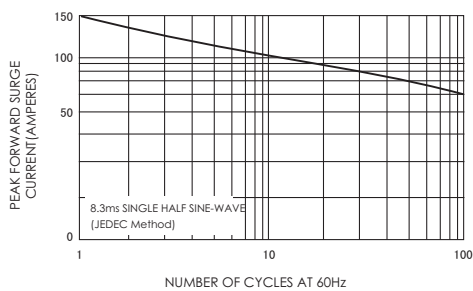


FIG.4-TYPICAL REVERSE CHARACTERISTICS

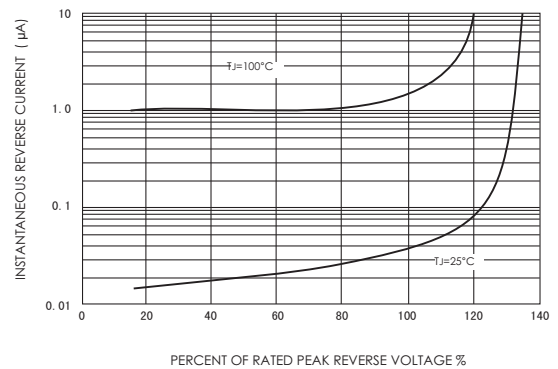


FIG.5-TYPICAL JUNCTION CAPACITANCE

