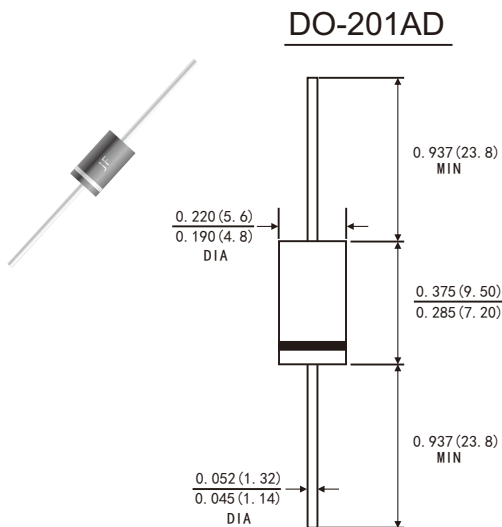


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Diffused junction
- High current capability
- Low power loss, high efficiency
- Low forward voltage drop
- Low leakage
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

MECHANICAL DATA

- Case: JEDED DO-201AD molded plastic body
- Lead: Plated axial leads, solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

		Symbols	HER 301	HER 302	HER 303	HER 304	HER 305	HER 306	HER 307	HER 308	Units
Maximum Recurrent peak reverse voltage		V_{RRM}	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current		$I(AV)$	3.0								AmpS
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	150.0								Amps
Maximum Instantaneous Forward Voltage at 3.0 A		V_F	1.0		1.3		1.7			Volts	
Maximum DC Reverse Current at rated DC blocking voltage	$T_A=25^{\circ}C$	I_R	10.0								μA
	$T_A=100^{\circ}C$		150								
Maximum reverse recovery time(Note1)		T_{rr}	50				75				ns
Typical junction capacitance(Note2)		C_J	70				50				pF
Operating junction and storage temperature range		T_J T_{STG}	-55 to+125 -55 to+150								$^{\circ}C$

Note: 1.Test conditions: $I_F=0.5A, I_R=1.0A, I_{RR}=0.25A$.

2.Measured at 1MHz and applied reverse voltage of 4.0 Volts.

RATINGS AND CHARACTERISTIC CURVES HER301 THRU HER308

FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

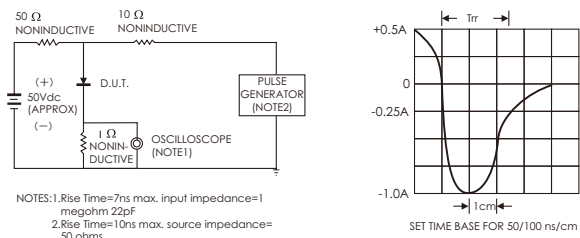


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

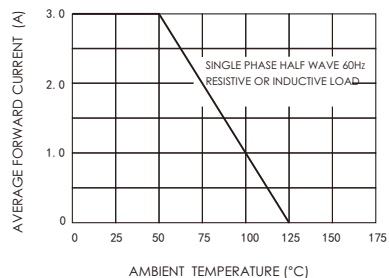


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

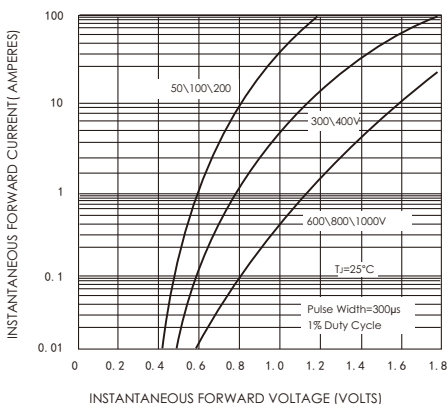


FIG.4-TYPICAL REVERSE CHARACTERISTICS

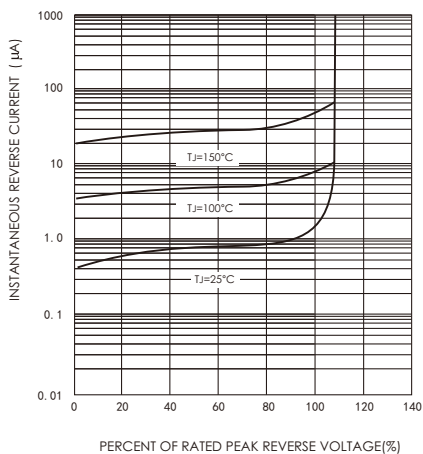


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

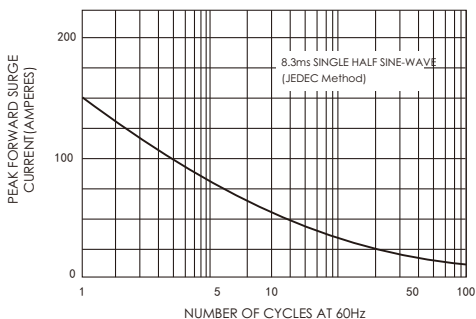


FIG.6-TYPICAL JUNCTION CAPACITANCE

