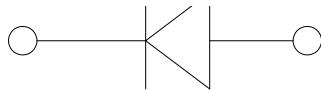
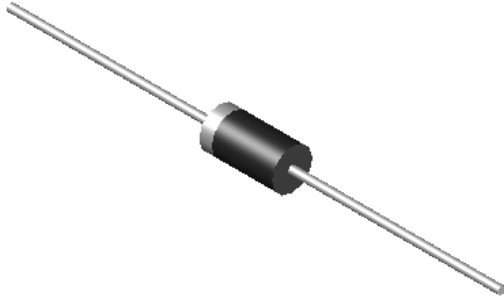


High Efficient Rectifier



Features

- High efficiency
- High current capability
- High Reliability
- High surge current capability
- Glass passivated chip junction
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Mechanical Data

- **Package:** DO-201AD(DO-27)
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:**Color band denotes cathode end

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	HER301	HER302	HER303	HER304	HER305	HER306	HER307	HER308
Device marking code			HER301	HER302	HER303	HER304	HER305	HER306	HER307	HER308
Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	300	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, Ta=60°C	$I_{F(AV)}$	A	3.0							
Forward Surge Current(Non-repetitive) @60Hz Half-sine wave, 1 cycle, Ta=25°C	I_{FSM}	A	125							
Storage Temperature	T_{stg}	°C	-55 ~+150							
Junction Temperature	T_j	°C	-55~+150							

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	HER301	HER302	HER303	HER304	HER305	HER306	HER307	HER308
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	$I_{FM}=3.0A$	1.0			1.3		1.7		
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	μA	Ta=25°C	2.5							
	I_{RRM2}		Ta=100°C	150							
Reverse Recovery time	t_r	ns	$I_F=0.5A$ $I_R=1A$ $I_{RR}=0.25A$	50					75		
Typical junction capacitance	C_j	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	70					40		

■Thermal Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	HER301	HER302	HER303	HER304	HER305	HER306	HER307	HER308
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/W	30							



HER301 THRU HER308

Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
HER301~HER308	D1	Approximate 1.05	1250	1250	12500	Tape
HER301~HER308	C1	Approximate 1.05	250	250	12500	Bulk

Characteristics (Typical)

FIG.1: I_o-T_a Curve

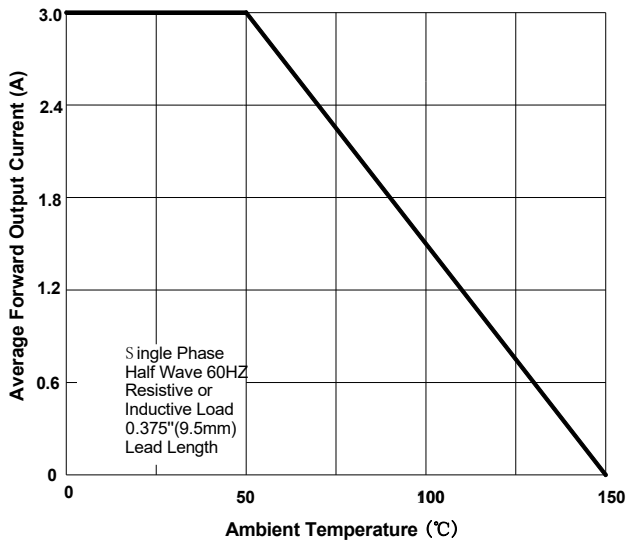


FIG.2: Forward Surge Current Capability

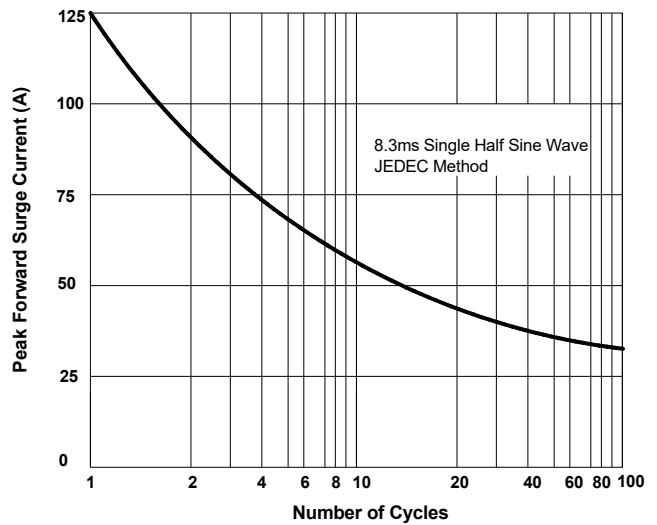


FIG.3: Forward Voltage

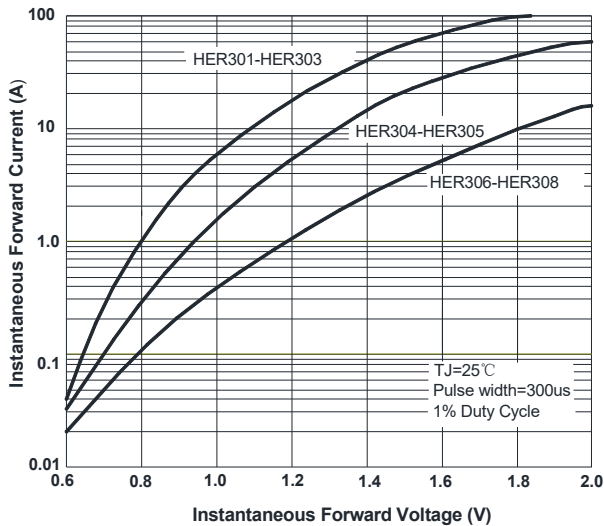
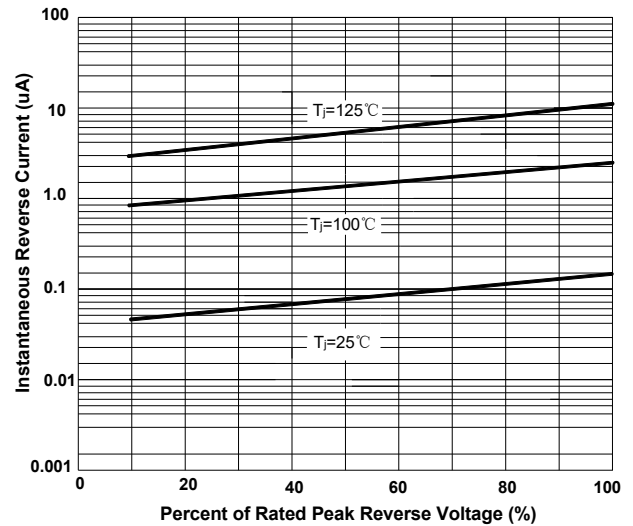


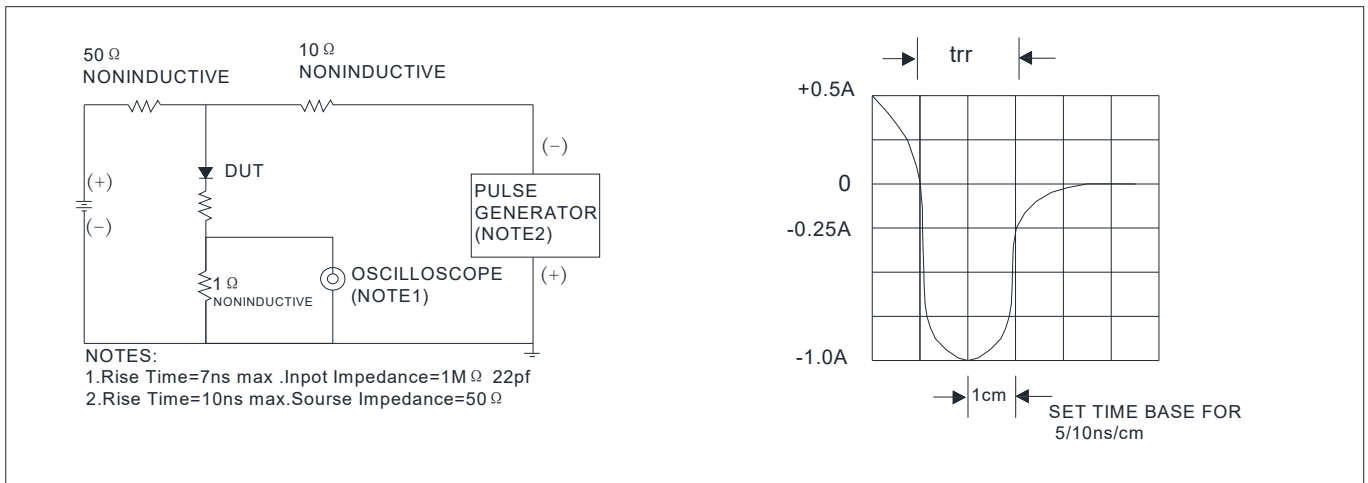
FIG.4: Typical Reverse Characteristics



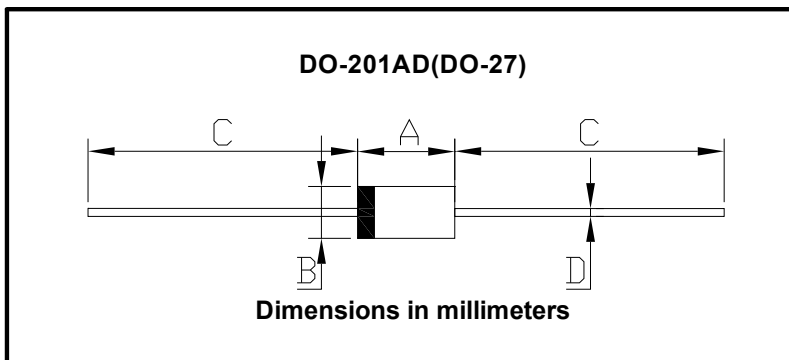


HER301 THRU HER308

FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■ Outline Dimensions



DO-201AD(DO-27)		
Dim	Min	Max
A	8.50	9.50
B	5.00	5.60
C	25.4	/
D	1.20	1.30



HER301 THRU HER308

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