

Features

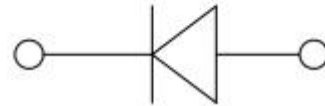
- High efficiency
- High Reliability
- Glass passivated chip junction
- High forward surge capability
- Solder dip maximum peak of 275 °C /7s, per JESD 22-B106

Typical Application

For use in rectifier

Mechanical Data

- Package: DO-204AL(D0-41)
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	Conditions	HER10							
				1G	2G	3G	4G	5G	6G	7G	8G
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	300	400	600	800	1000
Average Forward Current	$I_{F(AV)}$	A		1.0							
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60HZ sine wave, 1 cycle, Ta=25°C	30							
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	Conditions	HER10							
				1G	2G	3G	4G	5G	6G	7G	8G
Peak Forward Voltage	V_{FM}	V	$I_F = 1.0A$	1.0		1.3			1.7		
Peak Reverse Current	I_{RRM1}	μA	$V_{RM} = V_{RRM}$	Ta=25°C							
	I_{RRM2}			Ta=125°C							
Maximum reverse recovery time	T_{rr}	ns	$I_F = 0.5A$ $I_R = 1A$ $I_{RR} = 0.25A$	50				75			
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/W	Between junction and ambient	60							
Typical junction capacitance	C_j	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C	40				25			

■ Characteristics (Typical)

FIG1: Forward Current Derating Curve

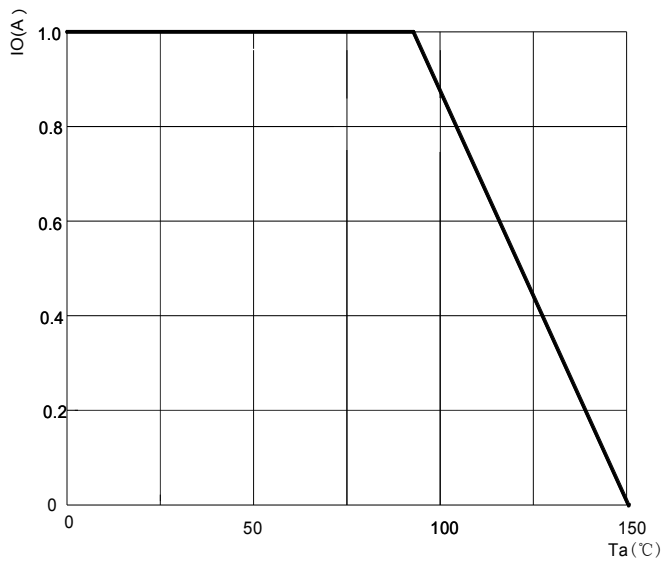


FIG2: Surge Forward Current Capability

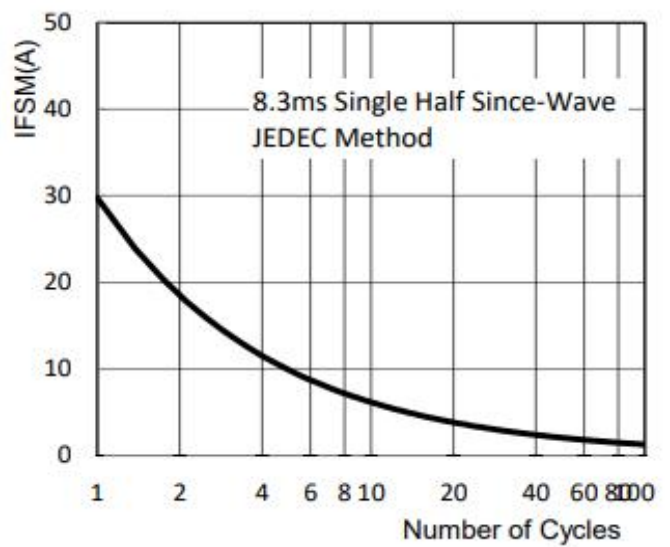


FIG3: Instantaneous Forward Voltage

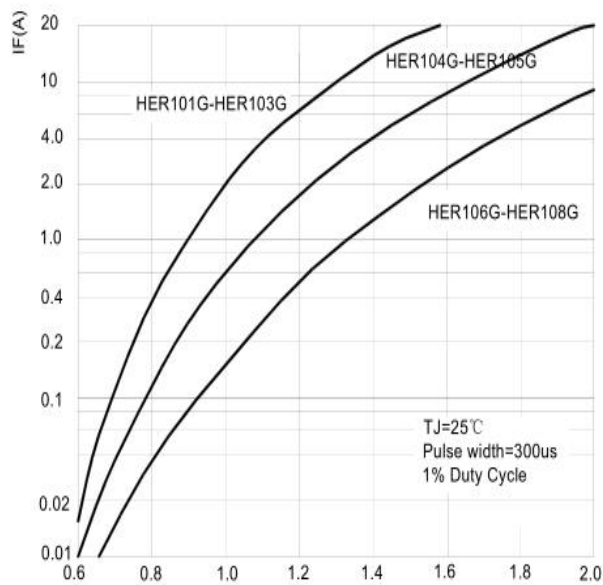


FIG4: Typical Reverse Characteristics

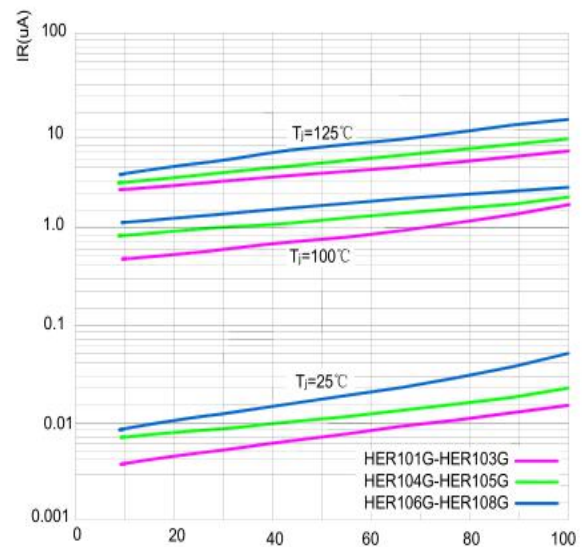
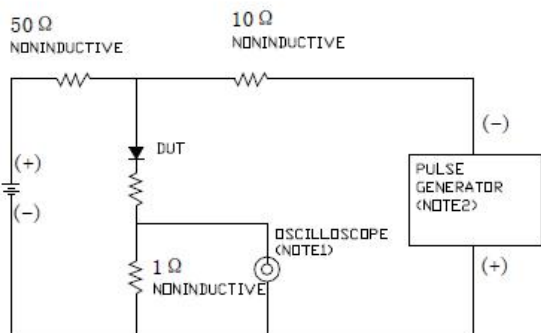
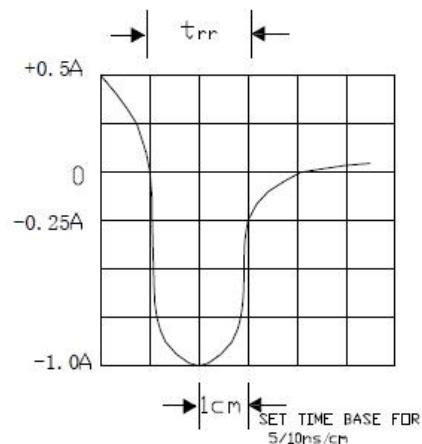


FIG5: Diagram of circuit and Testing wave form of reverse recovery time



NOTES:
1. Rise Time = ns max. Input Impedance = $1\text{M}\Omega$ 20pf
2. Rise Time = 10ns max. Source Impedance = 50 Ω





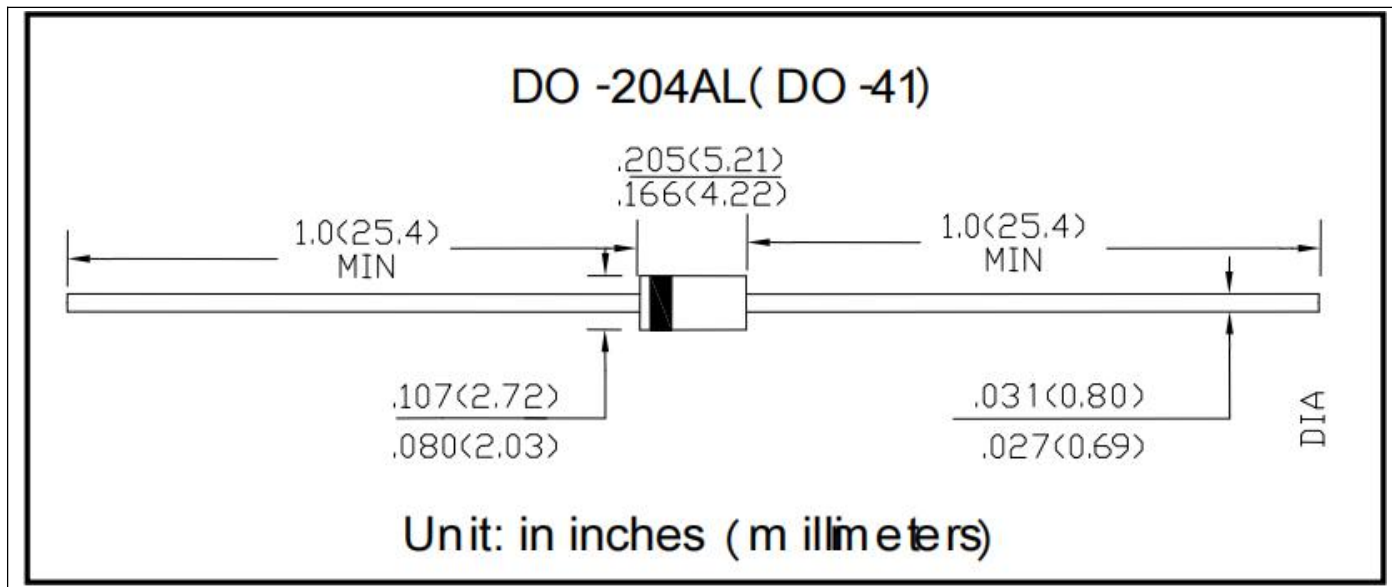
安美半导体
ANMEI Semiconductor

HER101G THRU HER108G

Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
HER101G~HER108G	DO-204AL(DO-41)	5000	5000	50000	Tape

Outline Dimensions



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