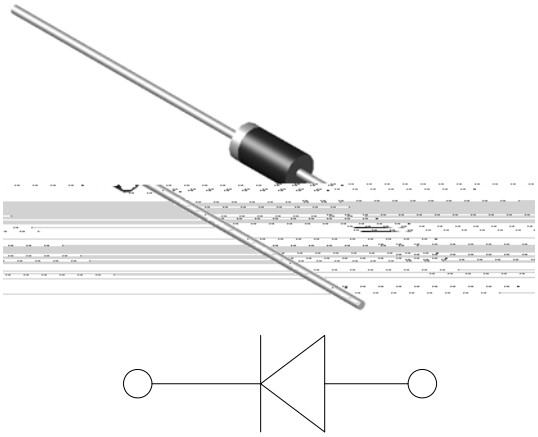
HER151G THRU HER158G

RoHS COMPLIANT

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-204AC(DO-15)
  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

yMaximum Ratings (Ta=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	HER151G	HER152G	HER153G	HER154G	HER155G	HER156G	HER157G	HER158G
Device marking code			HER151G	HER152G	HER153G	HER154G	HER155G	HER156G	HER157G	HER158G
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	300	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V	35	70	140	210	280	420	560	700
p א 2 ! l ¦		V	50	100	200	300	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, Ta=75	$I_{F(AV)}$	A	1.5							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, Tj=25	I_{FSM}	A	60							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			100							
Current squared time @1ms≤t8.3≤ms Tj=25 Rating of per diode	I^2t	A^2s	15							
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	Cj	pF	28			17		12		
Storage Temperature	T_{stg}		-55 ~ +150							
Junction Temperature	T_j		-55 ~ +150							

■Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	HER151G	HER152G	HER153G	HER154G	HER155G	HER156G	HER157G	HER158G
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=1.5A	1.0			1.3		1.7		
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j =25	2.5							
			T_j =125	100							
Maximum reverse recovery time	t_{rr}	ns	I_F=0.5A,I_R=1.0A, I_{rr}=0.25A	50					75		

v7KHUPDO &KDUDFWHULVWLFV (unless otherwise specified)

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7\SLFDO 7KHUPDO 5HVLVWDQFH	5θ$									

v2UGHULQJ ,QIRUPDWLRQ ([DPSOH

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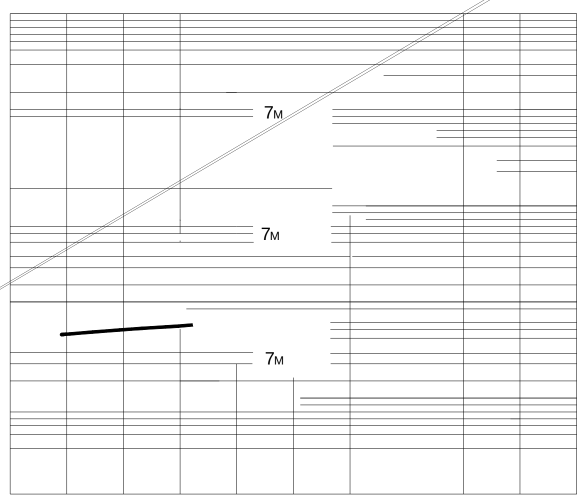
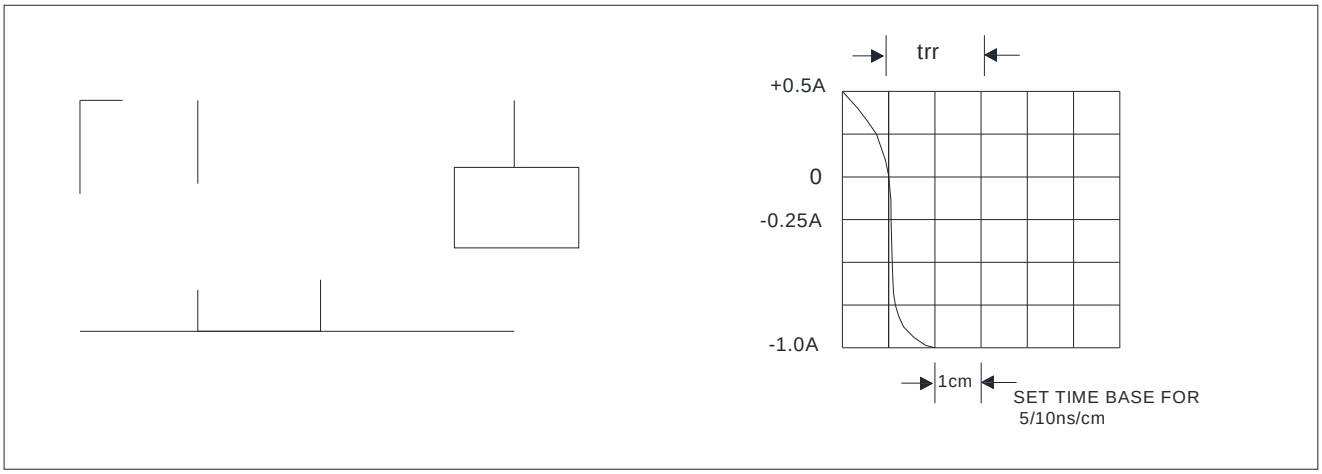
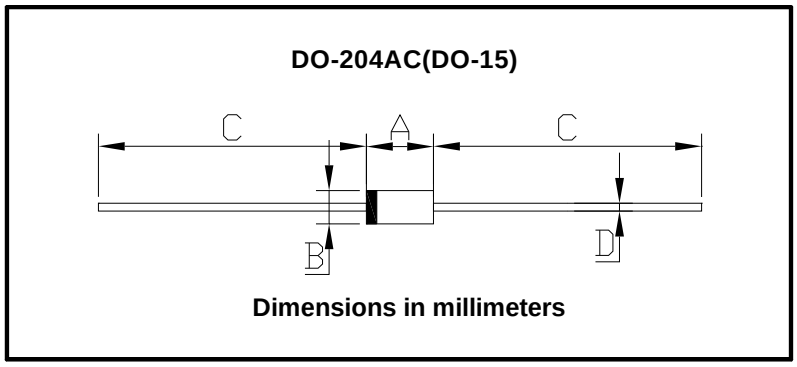


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■ Outline Dimensions



DO-204AC(DO-15)		
Dim	Min	Max
A	5.80	7.60
B	2.60	3.60
C	25.4	/
D	0.70	0.90