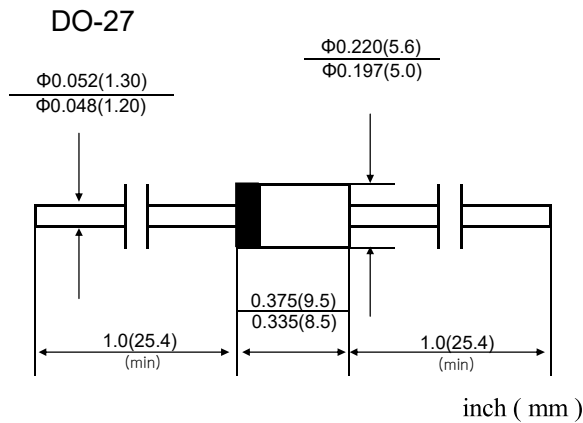


■ Outline Dimensions and Mark



■ Features

- I_o 5.0A
- VRRM 50V-1000V
- High surge current capability

■ Applications

- Rectifier

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

PARAMETER	SYMBOL	UNIT	HER501 G	HER502 G	HER503 G	HER504 G	HER505 G	HER506 G	HER507 G	HER508 G
Device marking code			HER501 G	HER502 G	HER503 G	HER504 G	HER505 G	HER506 G	HER507 G	HER508 G
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	300	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	210	280	420	560	700
Maximum DC blocking Voltage	VDC	V	50	100	200	300	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, Ta=50°C	IF(AV)	A	5.0							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25°C	IFSM	A	150							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C			300							
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode	I²t	A²s	94							
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	Cj	pF	72			46		52		
Storage Temperature	Tstg	°C	-55 ~ +150							
Junction Temperature	Tj	°C	-55 ~ +150							

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	HER501 G	HER502 G	HER503 G	HER504 G	HER505 G	HER506 G	HER507 G	HER508 G
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=5.0A	1.0			1.3		1.7		
Maximum DC reverse current at rated DC blocking voltage per diode	IR	μA	Tj=25°C	2.5							
			Tj=125°C	100							
Maximum reverse recovery time	trr	ns	IF=0.5A, IR=1.0A, IIR=0.25A	50					75		

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

PARAMETER	SYMBOL	UNIT	HER501G	HER502G	HER503G	HER504G	HER505G	HER506G	HER507G	HER508G
Typical Thermal Resistance	RθJA	°C/W	50							

■ **Characteristics (Typical)**

FIG.1: I_o - T_a Curve

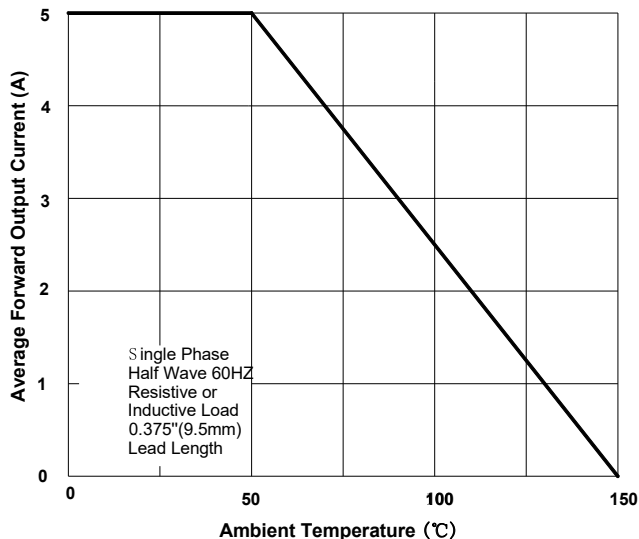


FIG.2: Forward Surge Current Capability

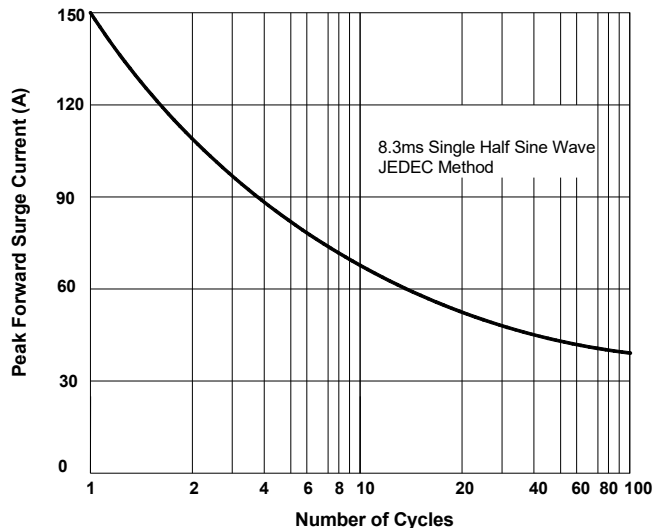


FIG.3: Forward Voltage

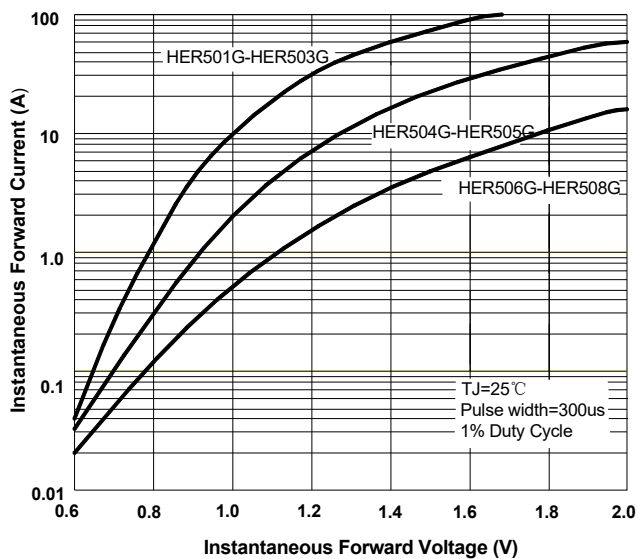


FIG.4: Typical Reverse Characteristics

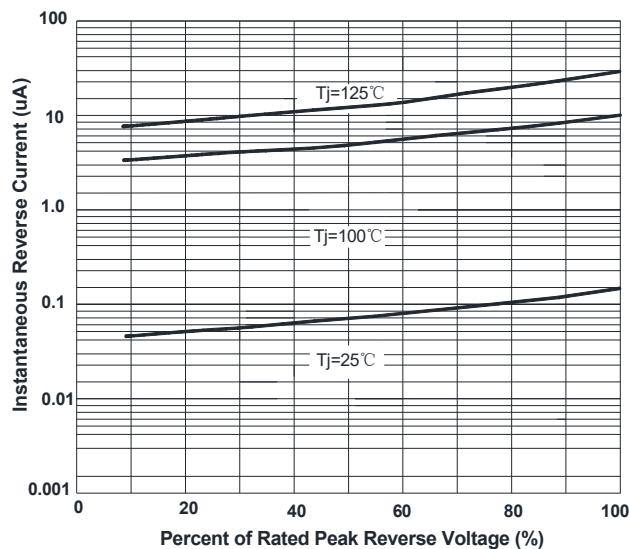


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time

