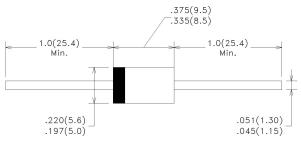
HER501G THRU HER508G



Plastic High-Efficiency Rectifiers

Package Outline Dimensions in mm (inches) DO27





Reverse Voltage - 50~1000 V Forward Current - 5.0 A

Features

- Glass Passivated Die
- Superfast Recovery times for high efficiency
- Low leakage current
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC

Typical Applications

• For use in switching power Supplies.

Mechanical Data

- Case:DO27 Plastic Package
- Polarity:Color band denotes cathode end

Maximum ratings

Ratings at TA=25°C (unless otherwise specified)

·	T .		I .				l e	
Parameter	Symbol	HER	HER	HER	HER	HER	HER	Unit
		501G	503G	505G	506G	507G	508G	
Maximum recurrent peak reverse voltage	Vrrm	50	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	200	400	600	800	1000	V
Maximum average forward rectified current (Note1)	IF(AV)	5.0						А
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	150						А
Storage temperature range	Ts	-55 to 150						°C
Operating Junction temperature range	Tj	-55 to 150						°C
Thermal Resistance (Note1)	RthJA	25						°C /W

Note1: Vertical P.C.B. mounting, 12.7 mm lead length with 63.5 mm x 63.5 mm copper pad.

Electrical characteristics

Ratings at TA=25°C (unless otherwise specified)

Parameter	Test	Symbol	HER	HER	HER	HER	HER	HER	Unit
	Conditions		501G	503G	505G	506G	507G	508G	
Maximum forward voltage	IF=5.0 A	VF	1.0		1.3	1.7		V	
Maximum DC reverse current at rated DC blocking voltage	TA=25°C		5.0						
	TA=125°C	IR	150						μΑ
Maximum Reverse Recovery Time	RG1	Trr	50		70			ns	





Plastic High-Efficiency Rectifiers

Typical Characteristics

Fig.1 Maximum Average Forward Current Rating

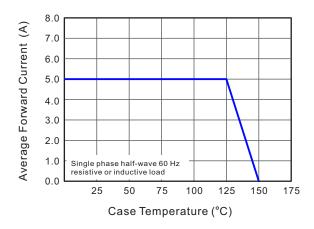


Fig.3 Typical Forward Characteristics

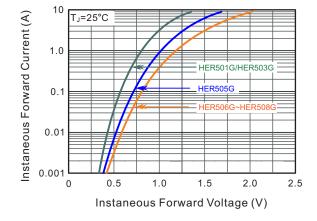


Fig.2 Typical Reverse Characteristics

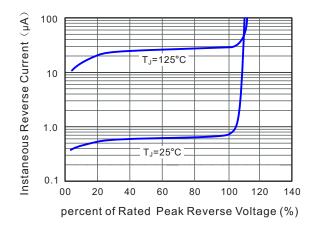


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current

