WEJ®

RoHS

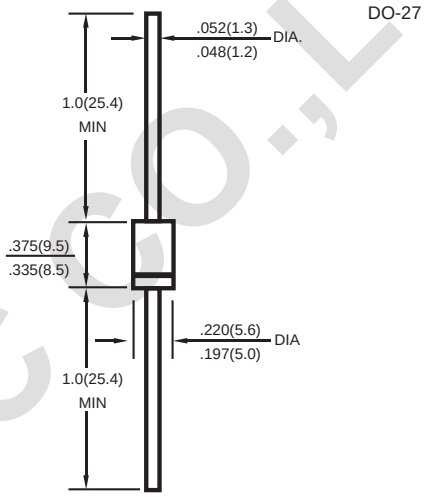
HER501-507

HIGH EFFICIENCY RECTIFIER

VOLTAGE RANGE 50 to 800 Volts
CURRENT 5.0 Amperes

FEATURES

- Low power loss,high efiiciency.
- Low leakage.
- High speed switching.
- High current capability.
- High surge capability.
- High temperature soldering guaranteed: 260°C/10 seconds/0.375″(9.5mm)lead length at 5 lbs (2,3kg) tension



Dimensions in inches and (millimeters)

MECHANICAL DATA

- **Case:**Transfer molded plastic
- **Epoxy:**UL94V-0 rate flame retardant
- **Polarity:**Color band denotes cathode end
- **Lead:**Plated axial lead ,solderable per MIL-STD-202E method 208C
- **Mounting position:**Any
- **Weight:**0.042 ounce,1.19 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase,half wave,60Hz,resistive or inductive load.
For capacitive load derate current by 20%.

	SYMBOLS	HER 501	HER 502	HER 503	HER 504	HER 505	HER 506	HER 507	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	800	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	560	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	800	Volts
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length at T_A=50°C	$I_{(AV)}$	5.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	200					150		Amps
Maximum Instantaneous Forward Voltage Drop at 5.0A	V_F	1.0			1.3		1.5	1.7	Volts
Maximum DC Reverse Currentat rated DC blocking voltage T_A=25°C	I_R	10							μA
Maximum Full Load Reverse Curren, full cycle average 0.375″(9.5mm) lead length at T_L=55°C	$I_{R(AV)}$	150							μA
Maximum Reverse Recovery Time(NOTE 1)	t_{rr}	50					70		nS
Typical Junction Capacitance(NOTE2)	C_J	70					50		pF
Typical Thermal Resistance(NOTE3).	$R_{\theta JA}$	20							°C/W
Operating and Storage Temperature Range	T_J,T_{STG}	-65 to +150							°C

NOTES:
1.Test condition:I_F=0.5A,I_R=1.0A.I_{RR}=0.25A.
2.Measured at 1MHz and applied reverse of 4.0volts.
3.Thermal resistance from junction to ambient with 0.375″(9.5mm) lead length,P.C.B.mounted.