HER601 ~ HER608 6.0Amp High Efficiency Rectifiers

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- High speed switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
 250°C/10 seconds,0.375"(9.5mm) lead length,
 5 lbs. (2.3kg) tension

Mechanical Data

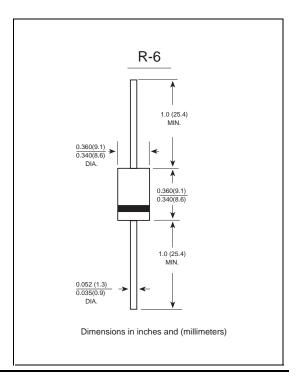
Case: R-6 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.072 ounce, 2.05grams



Maximum Ratings And Electrical Characteristics

Ratings at $25\,^{\circ}$ C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	HER 601	HER 602	HER 603	HER 604	HER 605	HER 606	HER 607	HER 608	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	300	400	600	800	1000	VOLTS
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	300	400	600	800	1000	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length at Ta=50°C	I(AV)	6.0							Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	200.0				150.0		Amps		
Maximum instantaneous forward voltage at 6.0A	VF	1.0		1.3		1.70			Volts	
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	lr	10.0 200.0						μΑ		
Maximum reverse recovery time (NOTE 1)	trr	50			75		ns			
Typical junction capacitance (NOTE 2)	CJ	130			85		pF			
Typical thermal resistance (NOTE 3)	RθJA	30.0						°C/W		
Operating junction and storage temperature range	Т _J ,Тsтg	-65 to +150							°C	

Note:1.Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A

- 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 3. Thermal resistance from junction to ambient at 0.375 "(9.5mm)lead length, P.C.B. mounted