HER501~HER508

HIGH EFFICIENCY RECTIFIERS Voltage Range - 50 to 1000 Volts Current - 5.0 Ampere

Features

- Low power loss, high efficiency
- Low leakage
- Low forward voltage drop
- High current capability
- High speed switching
- High reliability
- High current surge

Mechanical Data

- Case: DO-201AD, moulded plastic
- Terminals: MIL-STD-202E, method 208C guaranteed
- Polarity: Colored band denotes cathode end
- Mounting position: Any

Absolute Maximum Ratings and Characteristics

Rating 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	HER 508	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_A = 50$ °C	I _(AV)	5.0							А	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	150							A	
Maximum Instantaneous Forward Voltage at 5.0A	V _F		1.0		1	.3		1.7		V
Maximum Reverse Current at T _J = 25 ^O C at Rated DC Blocking Voltage T _J = 100 ^O C	I _R	10 750						uA		
Maximum Reverse Recovery Time (note1)	Trr	50				75		nS		
Typical Junction Capacitance(note2)	CJ	70				50		pF		
Typical Thermall Resistance (note3)	$R_{\Theta_{JA}}$	20						°C/W		
Operating Junction Temperature	Tj	-55 to +150						°C		
Storage Temperature Range	T _{Stg}	-55 to +150						°C		

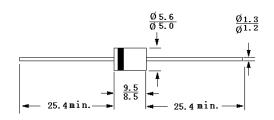
Notes: 1.Reverse recovery test conditions: $I_F = 0.5A$, $I_R = -1.0A$, Irr = -0.25A

2.Measured at 1.0MHz and applied reverse voltage of 4.0V

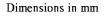
3. Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length P.C.B. mounted.



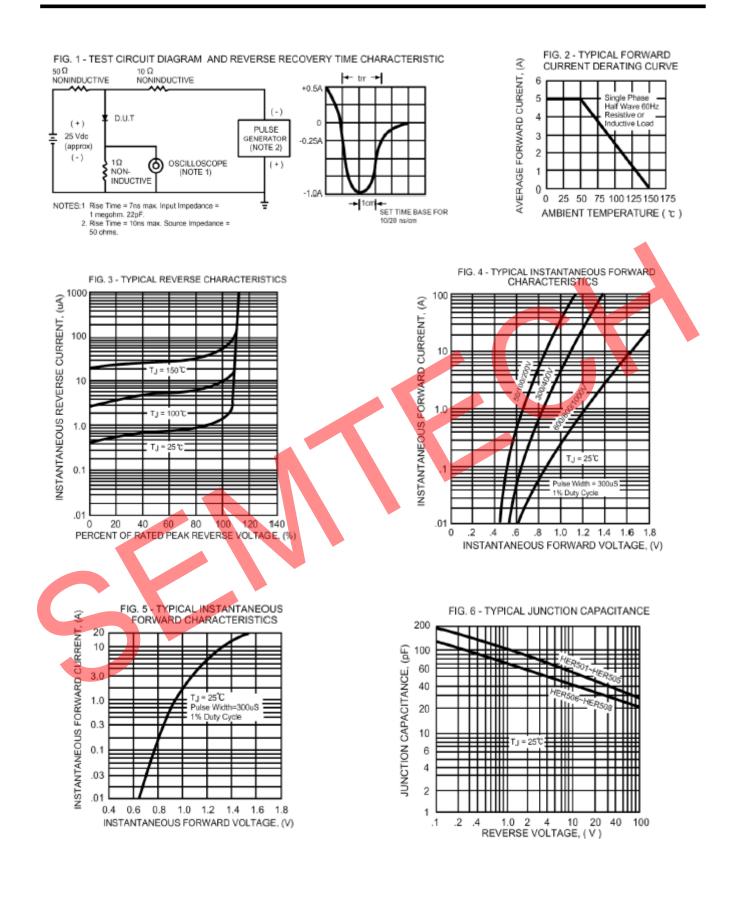




DO-201AD



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Dated : 05/08/2005 H