

HER151 THRU HER158

HIGH EFFICIENCY RECTIFIERS

FORWARD CURRENT 2.0 Ampere REVERSE VOLTAGE 50 to 1000 Volts

FEATURES

- ◆High speed switching
- ◆Low forward voltage drop
- ◆Low leakage current
- ◆High forward surge capability
- ♦ High reliability
- ◆High temperature soldering guaranteed

 260° C/10 seconds,0.375" (9.5mm)lead length at 5

lbs(2.3kg) tension

Mechanical Data

◆Case: Transfer molded plastic

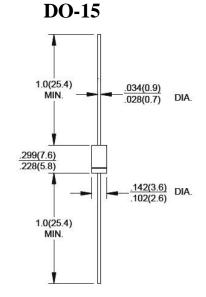
◆Epoxy: UL94V-0 rate flame retardant

◆Polarity: Color band denotes cathode end

◆Lead: Plated axial lead, solderable per MIL-STD-202E

method 208C

◆Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL 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%

PARAMETER		SYMBOL	HER 151	HER 152	HER 153	HER 154	HER 155	HER 156	HER 157	HER 158	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	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		V _{DC}	50	100	200	300	400	600	800	1000	VOLTS
Maximum average forward rectified current at T₄=55°C		I _(AV)	2.0								Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		Ігѕм	50							Amps	
Maximum instantaneous forward voltage at 2.0A		V_{F}	1.0 1.3 1.70					VOLTS			
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25°C	I _R	5.0								- uA
	T _A = 100°C		100								
Maximum reverse recovery time (NOTE 1)		T _{RR}	50			75		nS			
Typical Junction Capacitance (Note 2)		Сл	30 20					pF			
Typical Thermal Resistance (Note 3)		RөJA	50							°C/W	
Operating and storage temperature range		T _J ,Тsтg	-55 to +150								$^{\circ}\!\mathbb{C}$

Note: 1. Reverse recovery condition If=0.5A, Ir=1.0A, Irr=0.25A.

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

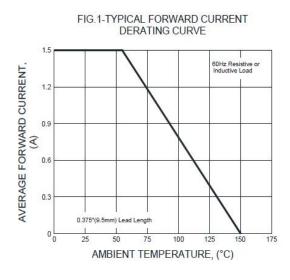
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REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 2.0 Ampere

RATING AND CHARACTERISTIC CURVES HER151 THRU HER158



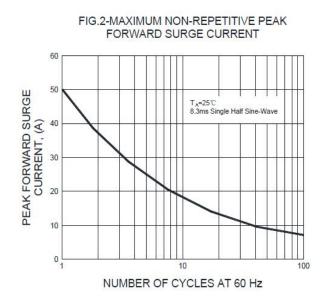
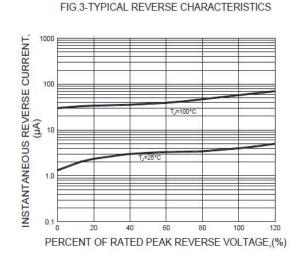
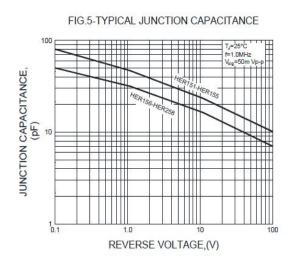


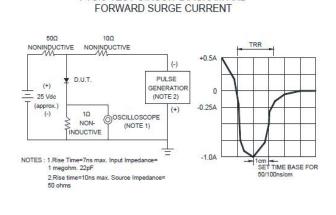
FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

T_=25°C
Pulse Width=300us
1% Duty Cycle
HER151-HER155
HER156-HER158

INSTANTANEOUS FORWARD VOLTAGE,(V)







F1G.6-TEST CIRCUIT DIAGRAM AND

Note: Specifications are subject to change without notice. For more detail and update, please visit our website.