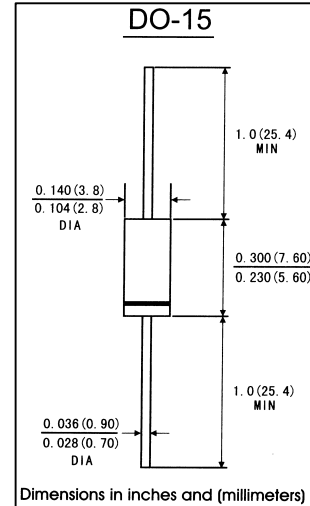


FEATURES

- . Plastic package has Underwrites Laboratory Flammability Classification 94V-0
- . Low forward voltage drop
- . High current capability
- . High reliability
- . Low power loss,high efficiency
- . High surge current capability
- . High speed seitching
- . Low leakage

MECHANICAL DATA

- . **Case:** JEDEC DO-41 molded plastic body
- . **Epoxy:** UL94V-0 rate flame retardant
- . **Lead:** plated axial leads, solderable per MIL-STD-750, method 2026
- . **Polarity:** Color band denotes cathode end
- . **Mounting Position:** Any
- . **Weight:** 0.014 ounce, 0.39 gram



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 151	HER 152	HER 153	HER 154	HER 155	HER 156	HER 157	HER 158	Units
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
Macimum average forward rectified current 0.375"(9.5mm)lead length at T _A =55°C	I _(AV)	1.5								Amp
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method)	I _{FSM}	50.0								Amps
Maximum instantaneous forward voltage at 2.0 A	V _F	1.0		1.1		1.7				Volts
Maximum DC Rreverse Current at rated DC blocking voltage at T _A =25°C	I _R	5.0								µA
Maximum full load reverse current full cycle average. 0.375"(9.5mm)lead length at T _L =55°C		100								
Maximum reverse recovery time(Note 1)	T _{rr}	50				70				ns
Typical junction Capacitance(Note 2)	C _J	50				30				pF
Operating and storage temperature range	T _J T _{STG}	-65 to +150								°C

- Notes:** 1. Test conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A.
 2. Measured at 1MHz and applied reverse voltage of 4.0V Volts

RATINGS AND CHARACTERISTIC CURVES HER151 THRU HER158

FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

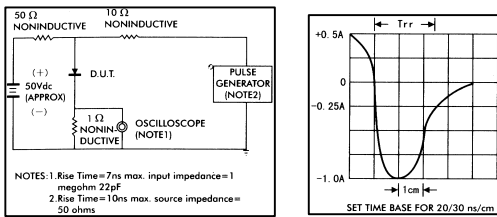


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

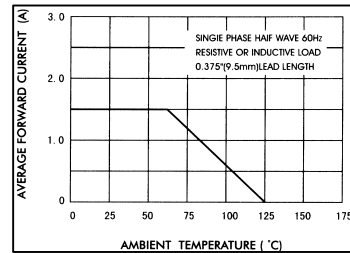


FIG.3-TYPICAL FORWARD CHARACTERISTICS

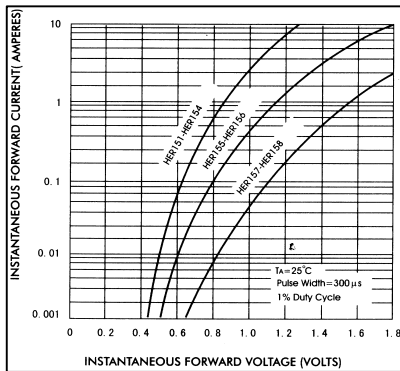


FIG.4-TYPICAL REVERSE CHARACTERISTICS

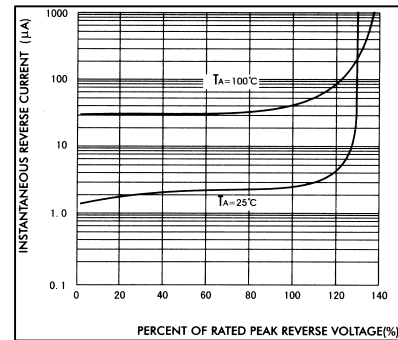


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

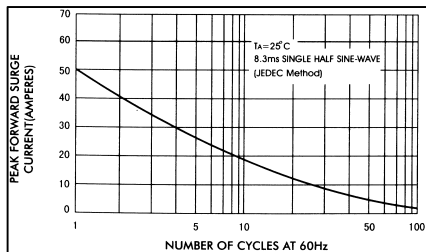
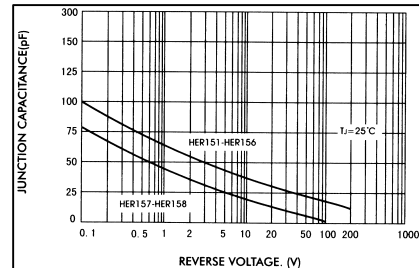


FIG.6-TYPICAL JUNCTION CAPACITANCE



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