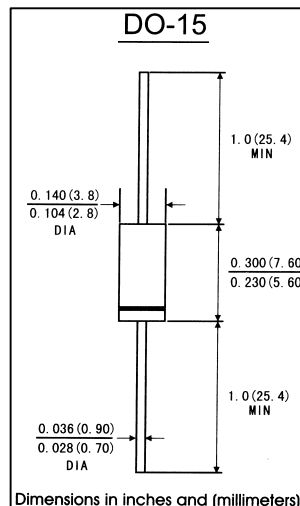


FEATURES

- . 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	VRRM	50	100	200	300	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	210	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	300	400	600	800	1000	Volts
Macimum average forward rectified current 0.375"(9.5mm)lead length at TA=55℃	IAV)	1.5								Amp
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method)	IFSM	50.0								Amps
Maximum instantaneous forward voltage at 2.0 A	VF	1.0			1.1		1.7			Volts
Maximum DC Rreverse Current at rated DC blocking voltage at TA=25℃	IR	5.0								μA
Maximum full load reverse current full cycle average. 0.375"(9.5mm)lead length at TL=55℃		100								
Maximum reverse recovery time(Note 1)	Trr	50					70			ns
Typical junction Capacitance(Note 2)	CJ	50					30			pF
Operating and storage temperature range	TJ TSTG	-65 to +150								℃

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

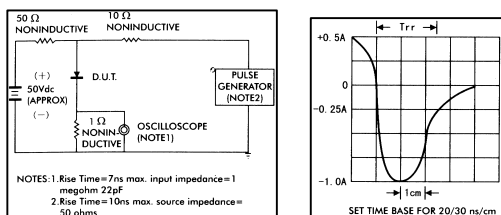


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

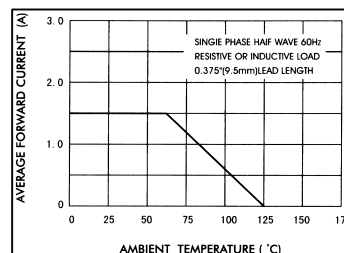


FIG.3-TYPICAL FORWARD CHARACTERISTICS

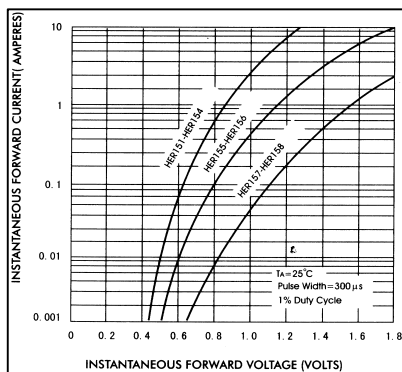


FIG.4-TYPICAL REVERSE CHARACTERISTICS

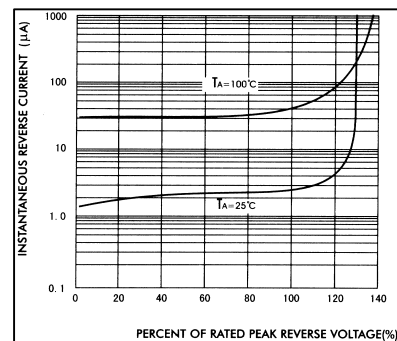


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

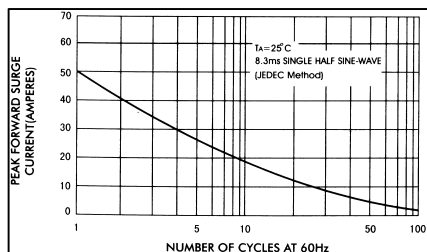


FIG.6-TYPICAL JUNCTION CAPACITANCE

