CE

CHENYI ELECTRONICS

HER151 THRU HER158

HIGH EFFICIENCY RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.5Amperes

FEATURES

. Plastic package has Underwrites Laboratory Flammability Classification 94V-0

. Low forward voltage drop

. High current capability

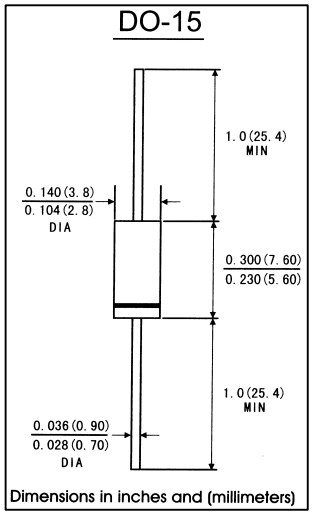
. High reliability

. Low power loss,high effciency

. 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℃ 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℃	$I_{(AV)}$	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℃	I_R	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)	C_J	50					30			pF
Operating and storage temperature range	T_J T_{STG}	-65 to +150								℃

Notes: 1.Test conditions:I_F=0.5A,I_R=1.0A,Irr=0.25A.

2.Measured at 1MHz and applied reverse voltage of 4.0V Volts

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RATINGS AND CHARACTERISTIC CURVES HER151 THRU HER158

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

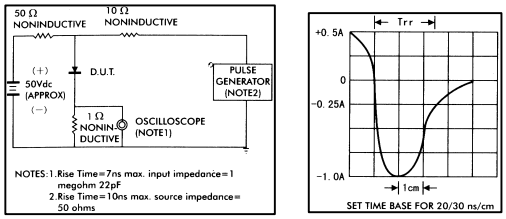

FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

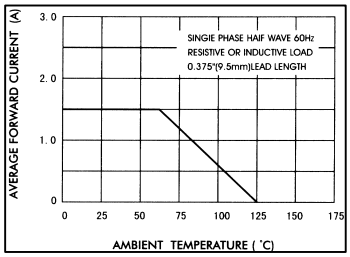

FIG.3-TYPICAL FORWARD CHARATERISTICS

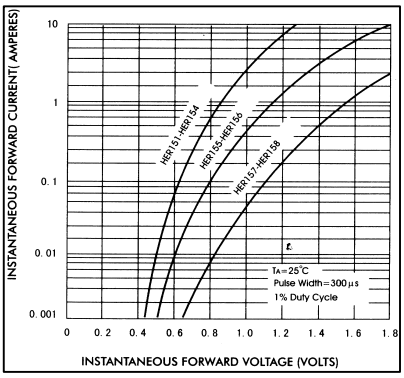

FIG.4-TYPICAL REVERSE CHARACTERISTICS

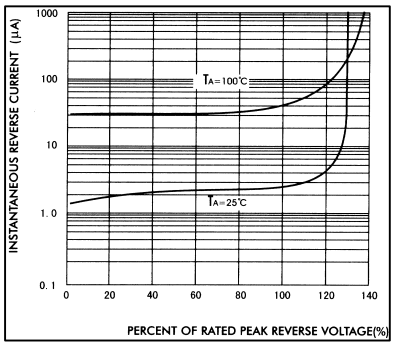

FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

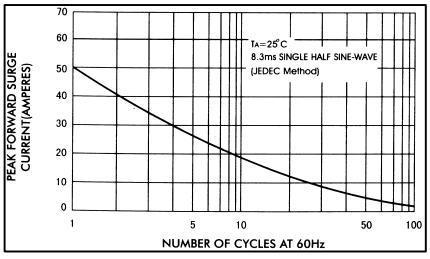

FIG.6-TYPICAL JUNCTION CAPACITANCE