

B GALAXY ELECTRICAL

ERC05-06---ERC05-08

PLASTIC SILICON RECTIFIER

VOLTAGE RANGE: 600 --- 800 V
CURRENT: 1.2 A

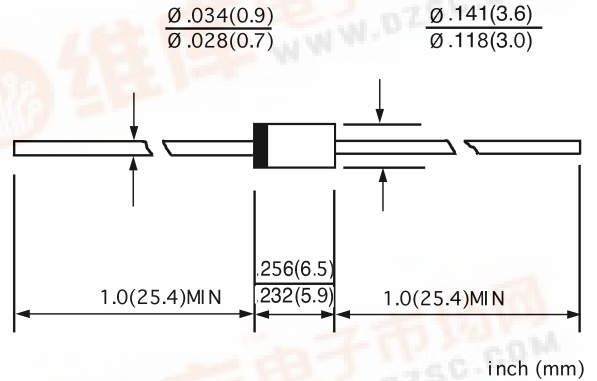
FEATURES

- ◇ Low cost
- ◇ Diffused junction
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with Freon,Alcohol,Isopropanol and similar solvents
- ◇ The plastic material carries U/L recognition 94V-0

MECHANICAL DATA

- ◇ Case:JEDEC DO--15,molded plastic
- ◇ Terminals: Axial lead ,solderable per MIL- STD-202,Method 208
- ◇ Polarity: Color band denotes cathode
- ◇ Weight: 0.014 ounces,0.39 grams
- ◇ Mounting position: Any

DO - 15



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		ERC05-06	ERC05-08	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	600	800	V
Maximum RMS voltage	V_{RMS}	420	560	V
Maximum DC blocking voltage	V_{DC}	600	800	V
Maximum average forward rectified current 9.5mm lead length, @ $T_A=75^\circ C$	$I_{F(AV)}$	1.2		A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ C$	I_{FSM}	100.0		A
Maximum instantaneous forward voltage @ 1.2 A	V_F	1.0		V
Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$	I_R	5.0	50.0	μA
Typical junction capacitance (Note1)	C_J	20		pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	40		$^\circ C/W$
Operating junction temperature range	T_J	-55-----+150		$^\circ C$
Storage temperature range	T_{STG}	-55-----+150		$^\circ C$

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient.

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FIG.1 – FORWARD CHARACTERISTIC

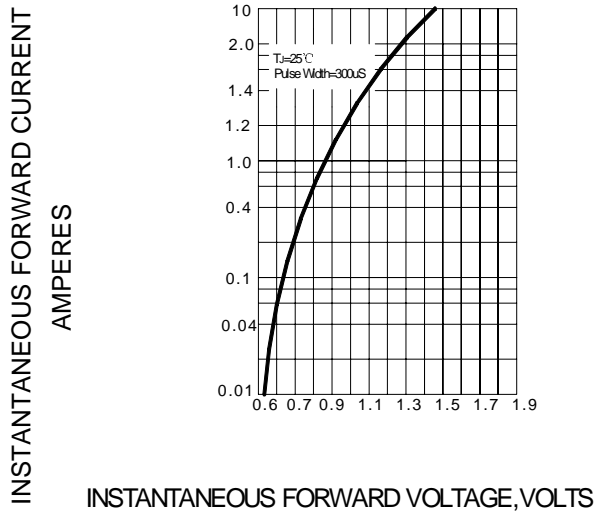


FIG.2 – JUNCTION CHARACTERISTICS

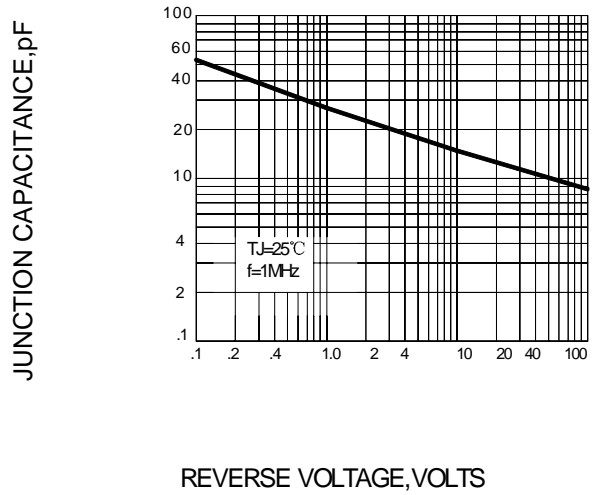


FIG.3 – FORWARD DERATING CURVE

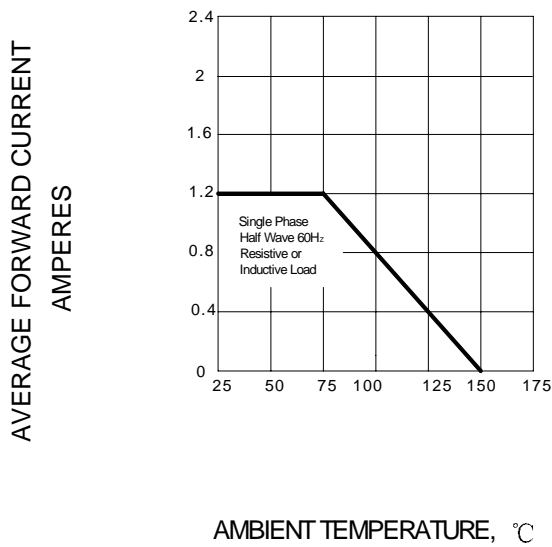


FIG.4 – PEAK FORWARD SURGE CURRENT

