PLASTIC SILICON RECTIFIER

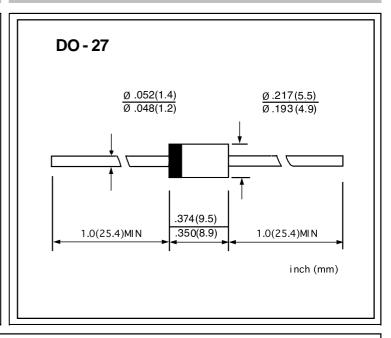
VOLTAGE RANGE: 50 --- 1000 V CURRENT: 5.0 A

FEATURES

- Diffused junction
- ♦ Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents

MECHANICAL DATA

- Polarity: Color band denotes cathode
- ♦ Weight: 0.041 ounces, 1.15 grams
- Mounting position: Any



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%.

		BY 550-50	BY 550-100	BY 550-200	BY 550-400	BY 550-600	BY 550-800	BY 550-1000	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current 9.5mm lead length, @T _A =75℃	I _{F(AV)}	5.0						А	
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @T _J =125°C	I _{FSM}	300.0							А
Maximum instantaneous forward voltage @ 5.0 A	V _F	1.1						V	
Maximum reverse current @T _A =25℃ at rated DC blocking voltage @T _A =100℃	I _R	10.0 100.0							μА
Typical junction capacitance (Note1)	CJ	80							pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	15							°C/W
Operating junction temperature range	TJ	- 55 + 150						$^{\circ}$	
Storage temperature range	T _{STG}	- 55 + 150							$^{\circ}$

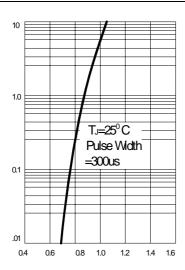
NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient.

www.galaxycn.com

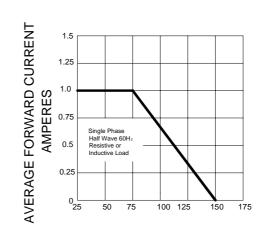
FIG.1 - TYPICAL FORWARD CHARACTERISTICS

INSTANTANEOUS FORWARD CURRENT AMPERES



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

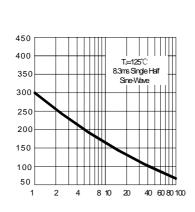
FIG.2 - TYPICAL FORWARD DERATING CURVE



AMBIENT TEMPERATURE, °C

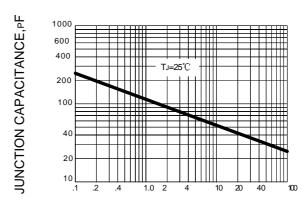
FIG.3 - PEAK FORWARD SURGE CURRENT

PEAK FORWARD SURGE CURRENT AMPERES



NUMBER OF CYCLES AT 60Hz

FIG.4-TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE, VOLTS