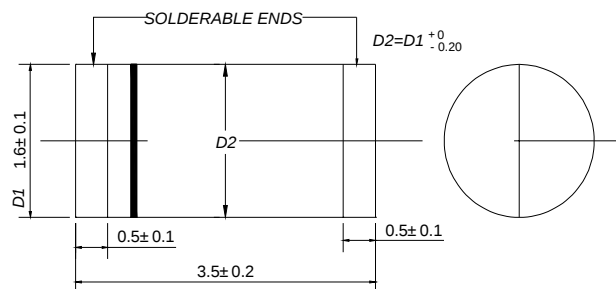




Features

Plastic package has underwriters laboratories
flammability classification 94V-0
Glass passivated chip junction
For surface mount applications
High temperature metallurgically bonded construction
Cavity-free glass passivated junction
High temperature soldering guaranteed:450 /5 seconds
at terminals.Complete device sub-mersible temperature
of 265 for 10 seconds in solder bath

DO - 213AA



Dimensions in millimeters

Mechanical Data

Case: JEDEC DO-213AA,molded plastic
Polarity: Color band denotes cathode
Weight: 0.0014 ounces, 0.036 grams
Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

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

		EGL 341A	EGL 341B	EGL 341D	EGL 341F	EGL 341G	EGL 341H	EGL 341J	UNITS
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	300	400	500	600	V
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	350	420	V
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	500	600	V
Maximum average forward rectified current T _T =75	I _(AV)	1.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30							A
Maximum instantaneous forward voltage @1.0A	V _F	1.25			1.35		1.70		V
Maximum reverse current @T _A =25 at rated DC blocking voltage @T _A =125	I _R	5.0 50							μA
Maximum reverse recovery time (Note 1)	t _{rr}	50							ns
Typical junction capacitance (Note 2)	C _j	15							pF
Typical thermal resistance (Note 3)	R _{θJA}	150							K/W
Operating junction temperature range	T _j	- 55 ---- +175							
Storage temperature range	T _{STG}	- 55 ---- +175							

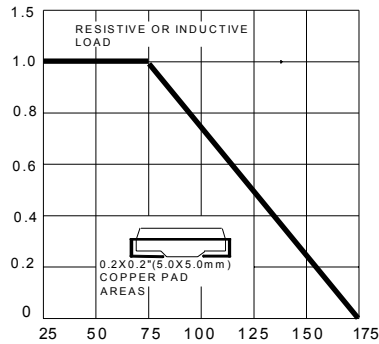
NOTE: 1. Measured with $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$

2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

3. Thermal resistance from junction to ambient, 0.24×0.24"(6.0×6.0mm) copper pads to each terminal.

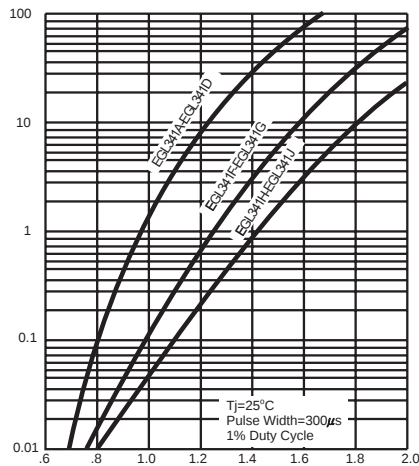
Ratings AND Characteristic Curves

FIG.1 – FORWARD CURRENT DERATING CURV

 AVERAGE FORWARD RECTIFIED
CURRENT, AMPERES


TERMINAL TEMPERATURE

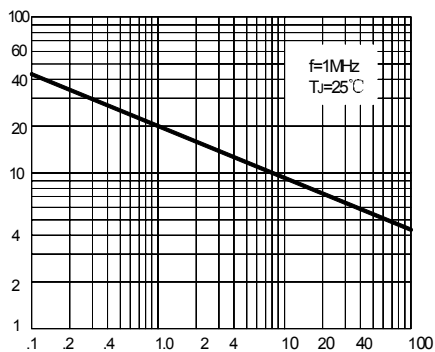
FIG.3 – TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

 INSTANTANEOUS FORWARD
CURRENT, AMPERES


INSTANTANEOUS FORWARD VOLTAGE(V)

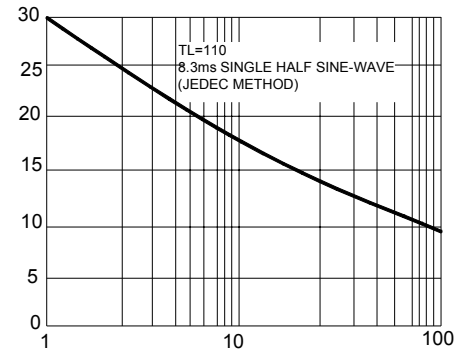
FIG.5 – TYPICAL JUNCTION CAPACITANCE

JUNCTION CAPACITANCE(pF)



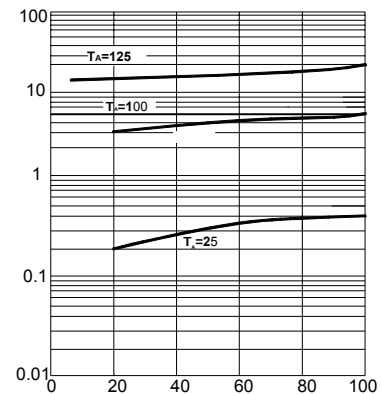
REVERSE VOLTAGE(V)

FIG.2 – MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

 PEAK FORWARD SURGE
CURRENT, AMPERES


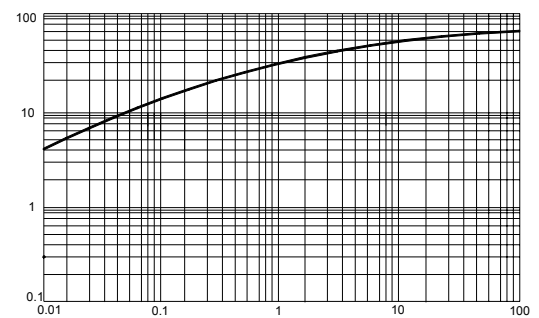
NUMBER OF CYCLES AT 60HZ

FIG.4 – TYPICAL REVERSE CHARACTERISTICS

 INSTANTANEOUS REVERSE
LEAKAGE CURRENT(mA)


PERCENT OF RATED PEAK REVERSE VOLTAGE. (%)

FIG.6 – TYPICAL TRANSIENT THERMAL IMPEDANCE

 TRANSIENT THERMAL IMPEDANCE
(°C/W)


T,PULSE DURATION,