


Reverse Voltage: 50 ---400V
Forward Current: 0.5A
DO - 213AA

Features

- Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- Capable of meeting environmental standards of MIL-S-19500
- High temperature metallurgically bonded construction
- Cavity-free glass passivated junction
- Fast switching for high efficiency
- High temperature soldering guaranteed: 450°C/5 seconds at terminals. Complete device submersible temperature of 260°C for 10 seconds in solder bath

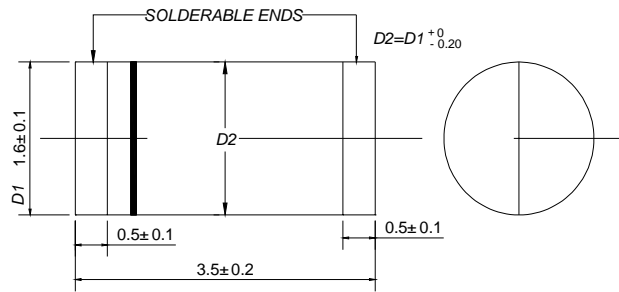
Mechanical Data

Case: JEDEC DO-213AA, molded plastic over glass body

Terminals: Plated terminals, solderable per MIL-STD-750, Method 2026

Polarity: Two bands indicate cathode end – 1st band denotes device type and 2nd band denotes repetitive peak reverse voltage rating

Mounting Position: Any **Weight:** 0.0014 oz., 0.036 g



Dimensions in millimeters

Maximum Ratings & Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	BYM07-50	BYM07-100	BYM07-150	BYM07-200	BYM07-300	BYM07-400	Unit
Fast efficient device: 1st band is Green		EGL34A	EGL34B	EGL34C	EGL34D	EGL34F	EGL34G	
Polarity color bands (2nd Band)		Gray	Red	Pink	Orange	Brown	Yellow	
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	150	200	300	400	V
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	V
Maximum DC blocking voltage	V _{DC}	50	100	150	200	300	400	V
Maximum average forward rectified current at T _T = 75°C	I _{F(AV)}	0.5						A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	10						A
Maximum full load reverse current, full cycle average at T _A = 55°C	I _{R(AV)}	50						μA
Maximum thermal resistance (Note 1, 2)	R _{θJA} R _{θJT}	150 70						°C/W
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +175						°C

Electrical Characteristics

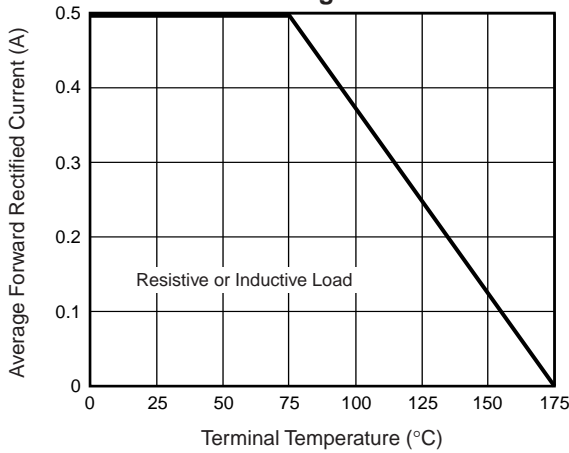
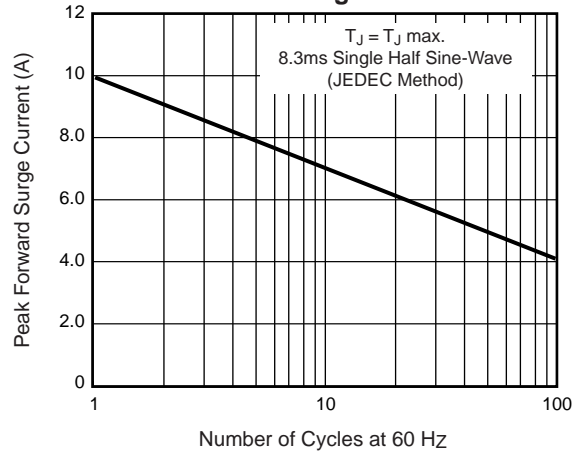
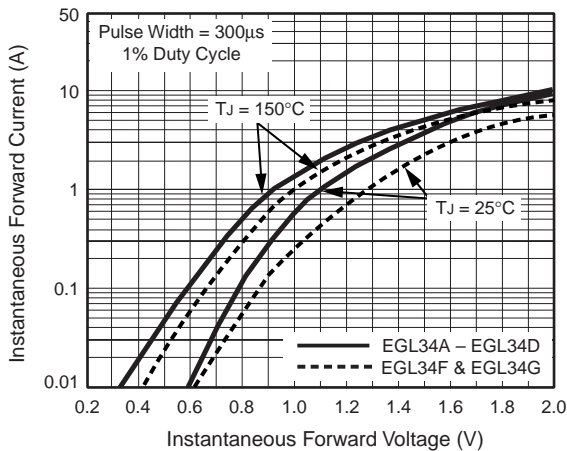
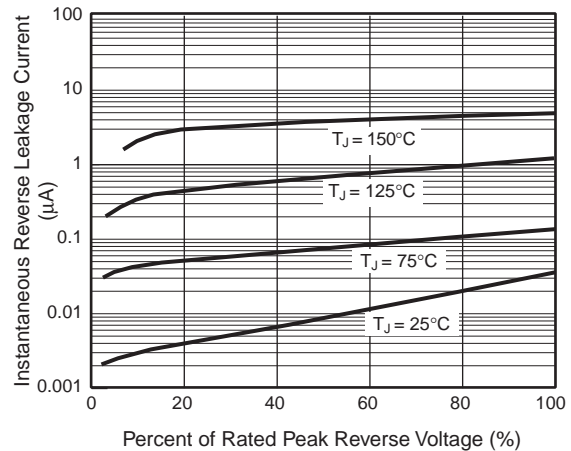
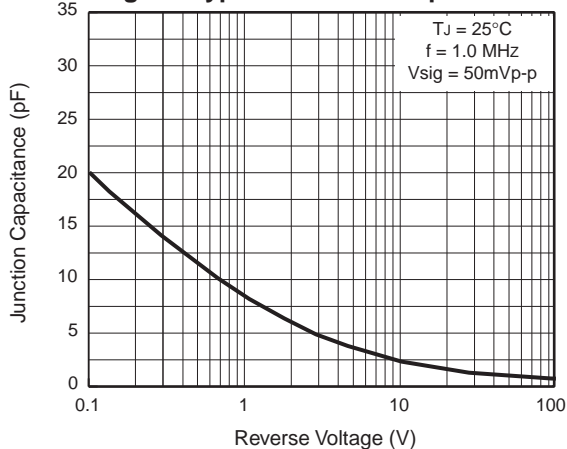
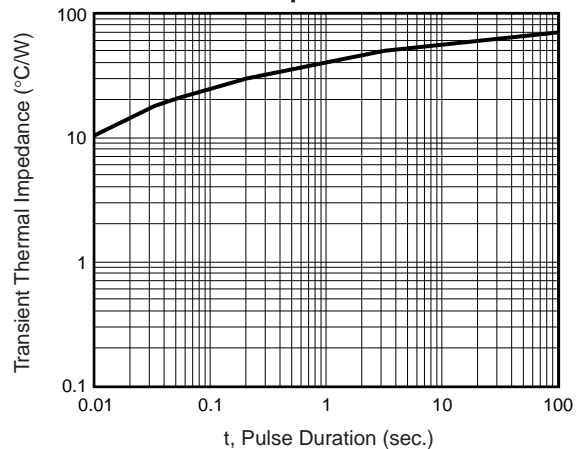
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		EGL34A	EGL34B	EGL34C	EGL34D	EGL34F	EGL34G	
Maximum DC reverse current at rated DC blocking voltage T _A = 25°C T _A = 125°C	I _R	5.0 50						μA
Maximum instantaneous forward voltage at 0.5A	V _F	1.25				1.35		V
Max. reverse recovery time at I _F = 0.5A, I _R = 1.0A, I _{rF} = 0.25A	t _{rr}	35						ns
Typical junction capacitance at 4.0V, 1MHz	C _J	10						pF

Notes: (1) Thermal resistance from junction to ambient, 0.24 x 0.24" (6.0 x 6.0mm) copp

(2) Thermal resistance from junction to terminal, 0.24 x 0.24" (6.0 x 6.0mm) copp


Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 – Forward Current Derating Curve

Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

Fig. 3 – Typical Instantaneous Forward Characteristics

Fig. 4 – Typical Reverse Characteristics

Fig. 5 – Typical Junction Capacitance

Fig. 6 – Typical Transient Thermal Impedance


PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
DO-213AA	5000/REEL	80000	36.0X35.8X36.5	18.00	16.00