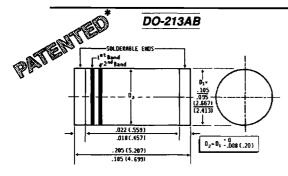
BYM12-50 THRU BYM12-400 EGL41A THRU EGL41G

SURFACE MOUNT GLASS PASSIVATED FAST EFFICIENT JUNCTION RECTIFIER Voltage - 50 to 400 Volts Current - 1.0 Ampere

FEATURES



Dimensions in inches and (millimeters)

*Glass-plastic encapsulation technique is covered by Patent No. 3,996,602 of 1976; brazed-lead assembly to Patent No. 3,930,306 of 1976



- ◆ For surface mounted applications
- High temperature metallurgically bonded
- · Glass passivated junction
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Superfast recovery times for high efficiency
- Capable of meeting environmental standards of MIL-S-19500
- Ultra fast switching for high efficiency
- High temperature soldering guaranteed: 450°C/ 5 seconds at terminals. Complete device submersible temperature of 265°C for 10 seconds in solder bath

MECHANICAL DATA

Case: Molded plastic over glass
Terminals: Solderable per MIL-STD-750, Method 2026
Polarity: Two bands indicate cathode
1st band denoted device type 2nd band denotes voltage type

Mounting Position: Any Handling Precautions: None

Weight: 0.116 gram, 0.0046 ounce

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

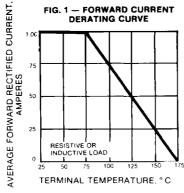
Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

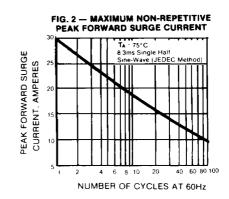
		BYM12						
	SYMBOLS	-50	-100	-150	-200	300	-400	UNITS
Fast efficient devices: 1 st band is green		EGL 41A	EGL 41B	EGL 41C		EGL 41F	EGL 41G	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	Volts
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	Volts
Maximum DC Blocking Voltage	Vpc	50	100	150	200	300	400	Volts
Maximum Average Forward Rectified Current at Tt=75°C	l(AV)	1.0						Amps
Peak Forward Surge Current, 8.3ms single half sine- wave superimposed on rated load (JEDEC Method)	IFSM	30.0						Amps
Maximum Instantaneous Forward Voltage at 1.0A	VF	1.0 1.25					Volts	
Maximum DC Reverse Current T _A =25°C T _A =125°C	l _B	5.0 50.0						μА
Maximum Reverse Recovery Time (NOTE 1) TJ=25°C	TRR	50						nS
Typical Junction Capacitance (NOTE 2)	CJ	15.0						рF
Maximum Thermal Resistance RthJL (NOTE 3) RthJA (NOTE 4)	Rejl Reja	30.0 60.0						°C/W
Operating Junction and Storage Temperature Range	TJ, TSTG	-65 to +175						°C
Polarity Color Bands (2 nd Band)		Gray	Red	Pink	Orange	Brown	Yellow	

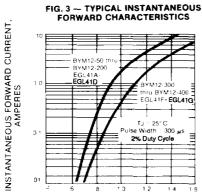
MOTES

- 1. Reverse Recovery Test Conditions: IF = 0.5A, IR = 1.0A, Im = 0.25A.
- Measured at 1 MHz and applied reverse voltage of 4.0 Volts.
- 3. Thermal resistance junction to terminal, 6.0mm² copper pads to each terminal.
- 4. Thermal resistance junction to ambient, 6.0mm² copper pads to each terminal.

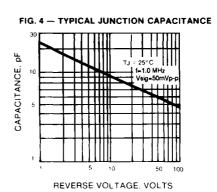
RATINGS AND CHARACTERISTIC CURVES BYM12-50 THRU BYM12-400 EGL41A THRU EGL41G

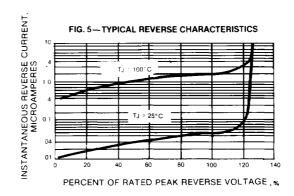






INSTANTANEOUS FORWARD VOLTAGE, VOLTS





General Instrument