

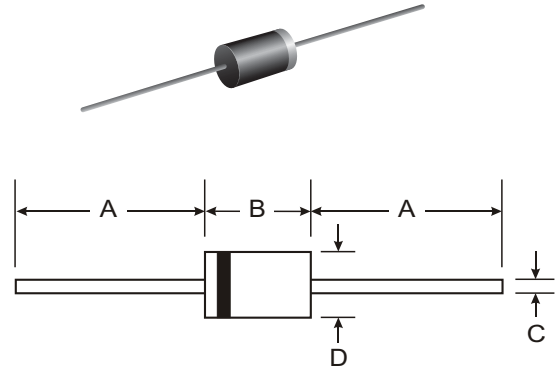
VOLTAGE RANGE: 50 - 1000V
CURRENT: 1.0 A

Features

- Diffused Junction
- Ultra-Fast Switching for High Efficiency
- High Current Capability and Low Forward Voltage Drop
- Low Reverse Leakage Current
- Plastic Material: UL Flammability Classification Rating 94V-0

Mechanical Data

- Case: DO-41 Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Marking: Type Number
- Weight: 0.35 grams (approx.)
- Mounting Position: Any



DO-41		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

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

Characteristic	Symbol	EGP 10A	EGP 10B	EGP 10D	EGP 10F	EGP 10G	EGP 10J	EGP 10K	EGP 10M	Unit	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	300	400	600	800	1000	V	
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	210	280	420	560	700	V	
Average Rectified Output Current (Note 1) @ T _A = 55°C	I _O	1.0								A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30								A	
Forward Voltage @ I _F = 1.0A	V _{FM}	1.0			1.3		1.7			V	
Peak Reverse Current @ T _A = 25°C At Rated DC Blocking Voltage @ T _A = 100°C	I _{RM}	5.0				100				μA	
Reverse Recovery Time (Note 2)	t _{rr}	50					75				nS
Typical Junction Capacitance (Note 3)	C _j	20					15				pF
Operating Temperature Range	T _j	-65 to +125								°C	
Storage Temperature Range	T _{STG}	-65 to +150								°C	

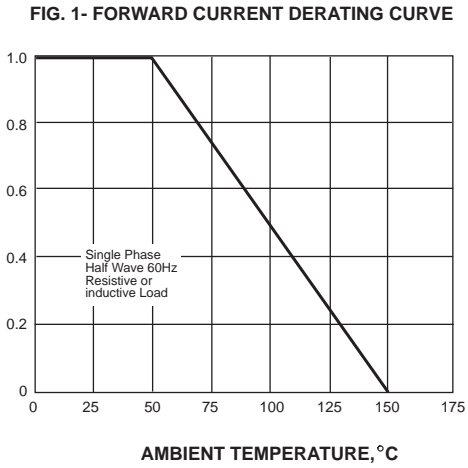
Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured with I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A. See figure 5.

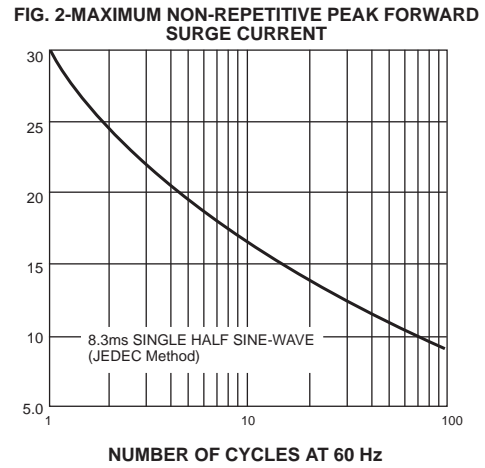
3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES EGP10A THRU EGP10M

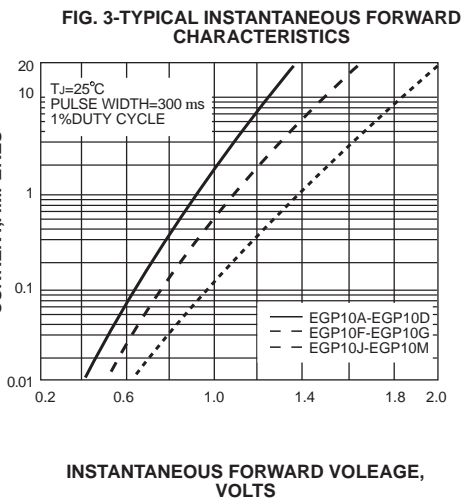
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



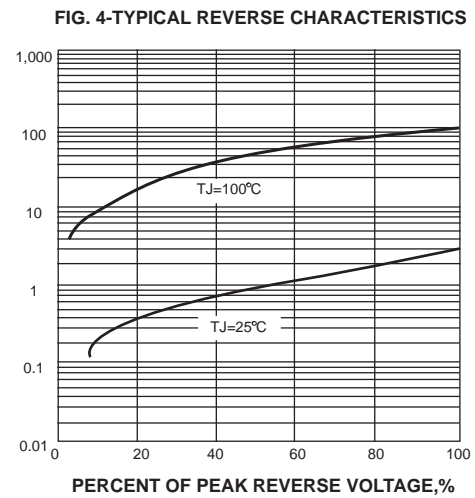
PEAK FORWARD SURGE CURRENT,
AMPERES



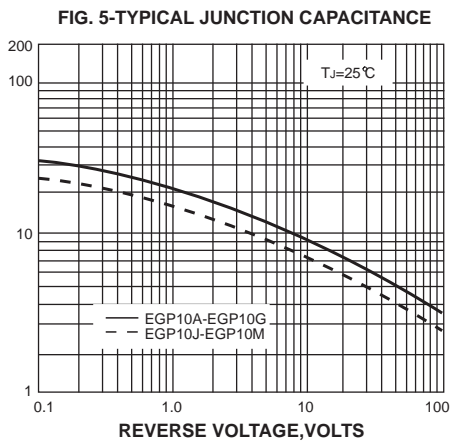
INSTANTANEOUS FORWARD
CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT,
MICROAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,
°C/W

