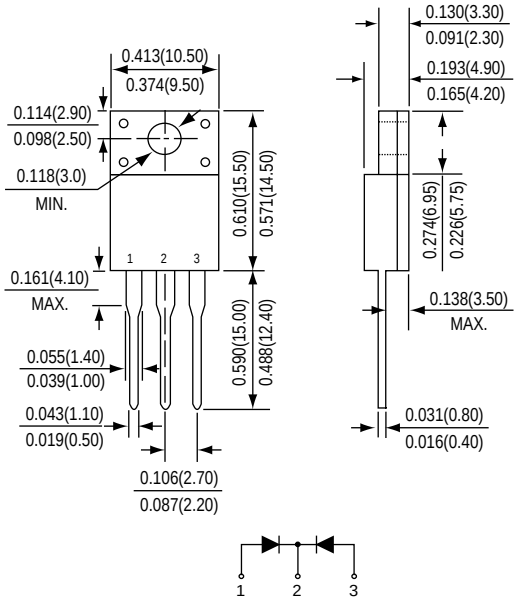
EGZ16DCFH THRU EGZ16JCFH

GLASS PASSIVATED JUNCTION HIGH EFFICIENT RECTIFIERS

Reverse Voltage - 200 to 600 Volts *Forward Current - 16 Amperes*

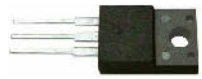
PATENTED

ITO-220AB



*Dimensions in inches and (millimeters)

SUPEREX II™



FEATURES

* GPRC (Glass Passivated Rectifier Chip) inside
* Glass passivated cavity-free junction
* Halogen-free type
* Lead free product, compliance to RoHS
* Low forward voltage, high current capability
* Low leakage current
* High surge current capability
* Plastic Material-UL Recognition Flammability Classification 94V-0

MECHANICAL DATA

Case : JEDEC ITO-220AB molded plastic body
Terminals : Plated Leads, solderable per MIL-STD-750, Method 2026
Polarity : Molded on body
Mounting Position : Any
Weight : 2.24 grams(Approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	*SYMBOLS*	***EGZ16DCFH***	***EGZ16GCFH***	***EGZ16JCFH***	*UNITS*
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	Volts
Maximum RMS voltage	V_{RMS}	140	280	420	Volts
Maximum DC blocking voltage	V_{DC}	200	400	600	Volts
Maximum average forward rectified current See Fig. 1	$I_{(AV)}$	16			Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	125			Amps
Maximum instantaneous forward voltage at I_F = 8 A	V_F	1.00	1.25	1.70	Volts
Maximum DC reverse current at rated DC blocking voltage @T_A=25℃	I_R	5			uA
Maximum reverse recovery time (NOTE 1)	trr	50		75	nS
Typical junction capacitance (Note 2)	C_J	90			pF
Operating junction and storage temperature range	T_J,T_{STG}	-65 to +175			℃

Note : 1. Reverse recovery test condition : IF 0.5A, IR=1.0A, Irr=0.25A
2. Measured at 1.0MHz and applied reverse voltage of 4.0V.
3. Preliminary draft.

RATINGS AND CHARACTERISTIC CURVES EGZ16DCFH THRU EGZ16JCFH

FIG.1 - FORWARD CURRENT DERATING CURVE

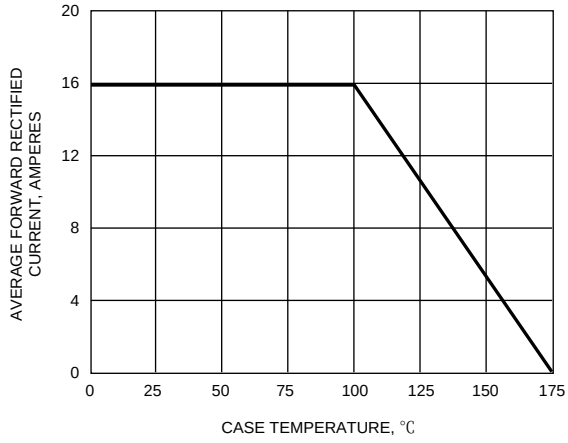


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

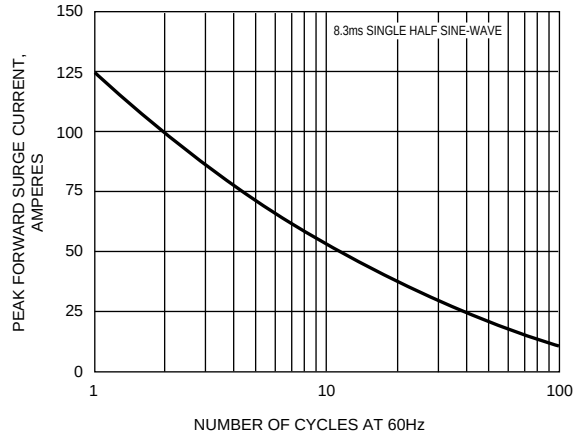


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

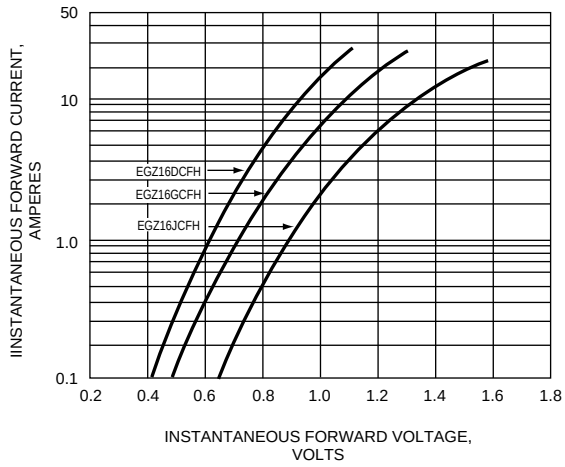


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

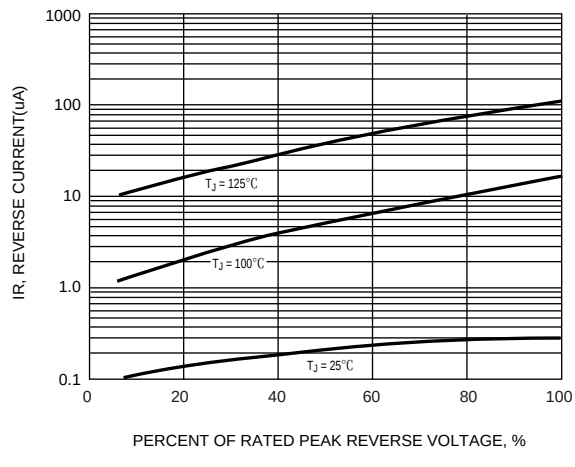


FIG.5 - TYPICAL JUNCTION CAPACITANCE

