



GLASS PASSIVATED RECTIFIER

16AF05C THRU 16AF10C

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

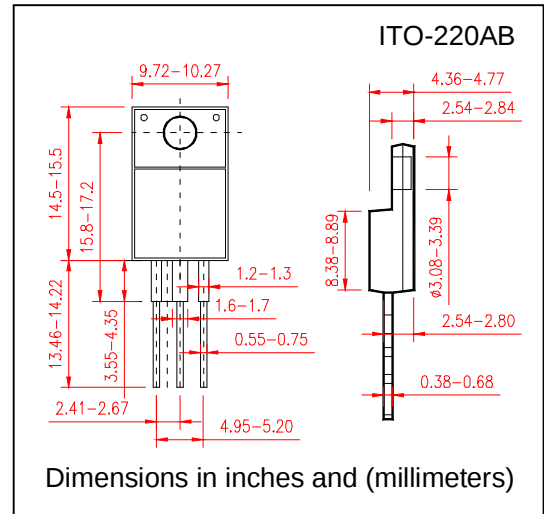
16.0 Ampere

FEATURES

- Glass passivated chip junction
- Low power loss, high efficiency
- Low leakage
- High current capacity, high surge capacity
- High temperature soldering guaranteed
- 200°C/10 second, 0.16" (4.06mm) lead length from case

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Polarity: Marked on package
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.064ounce, 1.81 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

		SYMBOLS	16AF05C	16AF1C	16AF2C	16AF4C	16AF6C	16AF8C	16AF10C	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current T _A T _C =100℃		I _(AV)	16.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	175							Amps
Maximum Instantaneous Forward Voltage at 8.0A		V _F	1.1							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	T _A = 25℃	I _R	10							μA
	T _A = 125℃		300							
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)		C _J	55							pF
Typical Thermal Resistance (NOTE 1)		R _{θJC}	2.5							℃/W
Operating Junction Temperature Range		T _J	(-55 to +150)							℃
Storage Temperature Range		T _{STG}	(-55 to +150)							℃

Notes:

1. Unit mounted on heatsink



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RATING AND CHARACTERISTIC CURVES 16AF05C THRU 16AF10C

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

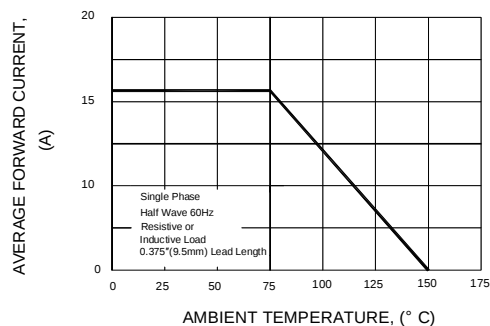


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

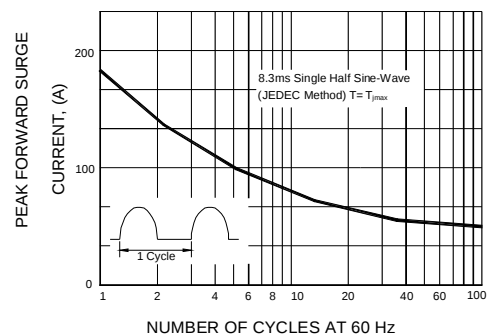


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

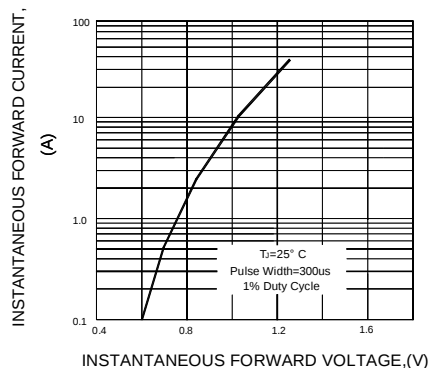


FIG.4-TYPICAL REVERSE CHARACTERISTICS

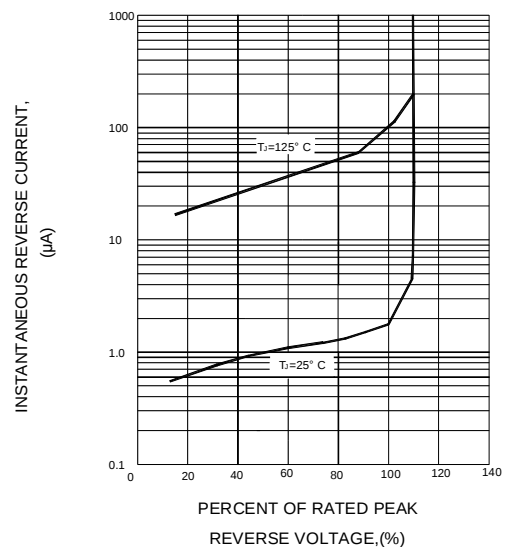


FIG.5-TYPICAL JUNCTION CAPACITANCE

