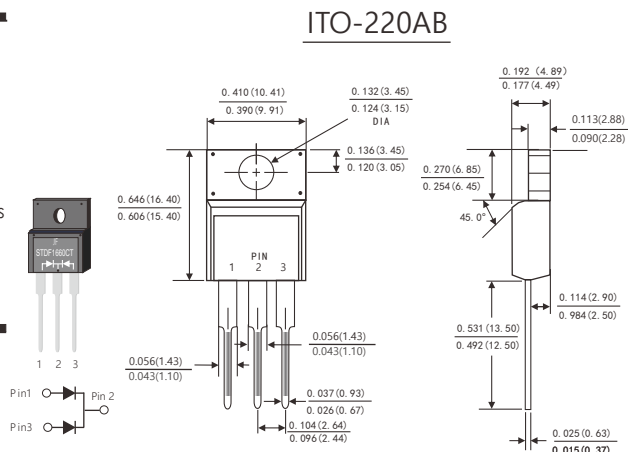


Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- General Purpose Rectifier
- Low Power loss, High Efficiency
- Low Reverse Leakage Current
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU

Mechanical Data

- Case: JEDEC ITO-220AB molded plastic body
- Terminals: Solderable per MIL-STD-202, method 208
- Polarity: As marked
- Mounting Position: Any



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 by 20%.)

Parameters		Symbols	STDF 1605CT	STDF 1610CT	STDF 1620CT	STDF 1640CT	STDF 1660CT	STDF 16100CT	Units	
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	1000	Volts	
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	700	Volts	
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	1000	Volts	
Maximum average Forward Rectified Current		$I(AV)$	16.0							Amp
Peak Forward Surge Current (50Hz half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	200.0							Amps
Maximum Instantaneous Forward Voltage at 8.0 A		V_F	1.00							Volts
Maximum Reverse current at rated DC Blocking Voltage	$T_A=25^{\circ}C$	I_R	5.0							μA
	$T_A=100^{\circ}C$		200.0							
Typical Thermal resistance		$R_{\theta JA}$ $R_{\theta JC}$	75 3.0							$^{\circ}C/W$
Operating and Storage temperature Range		T_J/T_{STG}	-55 to +150							$^{\circ}C$

RATINGS AND CHARACTERISTIC CURVES STDF16XXCT

FIG.1-FORWARD CURRENT DERATING CURVE

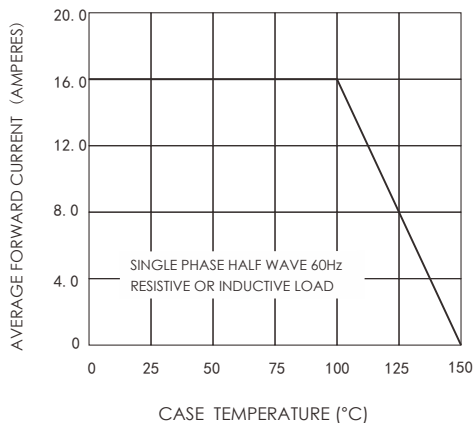


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

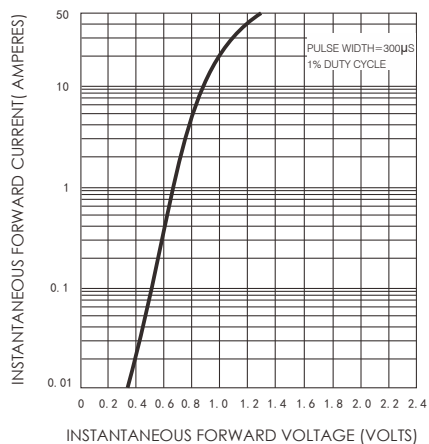


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

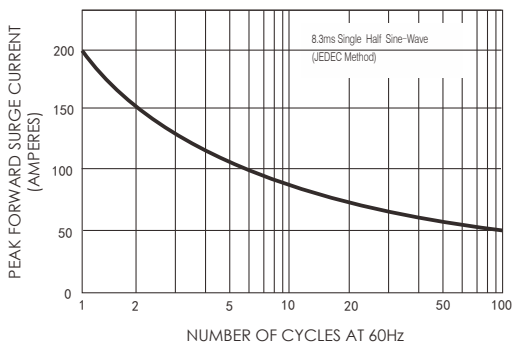
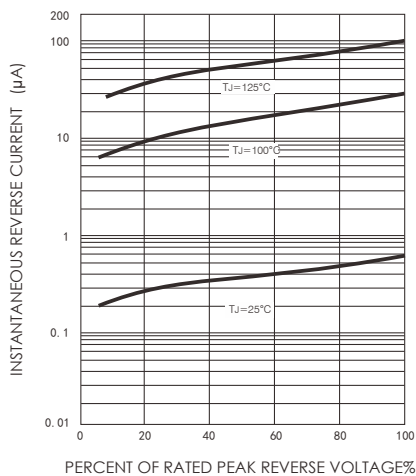


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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