



SFF1601CT thru SFF1608CT

SUPER FAST RECTIFIERS

REVERSE VOLTAGE - 50 to 600Volts
FORWARD CURRENT - 16.0 Amperes

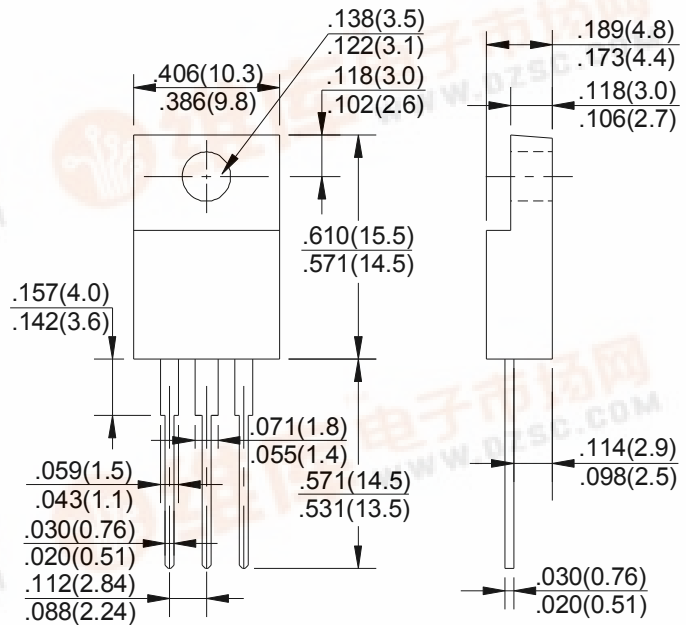
FEATURES

- Super fast switching time for high efficiency
- Low forward voltage drop
High current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Case: ITO-220AB molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Mounting position :Any
- Weight: 2.24 grams
- polarity:As marked

ITO-220AB



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	SFF 1601CT	SFF 1602CT	SFF 1603CT	SFF 1604CT	SFF 1605CT	SFF 1606CT	SFF 1608CT	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	600	V
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current @TA =75 ℃	Io	16.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	300							A
Peak Forward Voltage at 8.0A DC	VF	1.0				1.25		1.3	V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃	IR	10 150							μA
Maximum Reverse Recovery Time(Note1)	TRR	35				40		50	nS
Typical Junction Capacitance (Note2)	CJ	40							pF
Typical Thermal Resistance (Note3)	RθJA	2.5							℃/W
Operating and Storage Temperature Range	TJ,TSTG	-55 to + 150							℃

NOTES:1.Measured with I_F=0.5A,I_R=1A,I_{RR}=0.25A

2.Measured at 1.0 MHZ and applied reverse voltage of 4.0VDC.



RATING AND CHARACTERISTIC CURVES
HERF1601CT thru HERF1608CT



FIG.1- TYPICAL FORWARD CURRENT DERATING CURVE

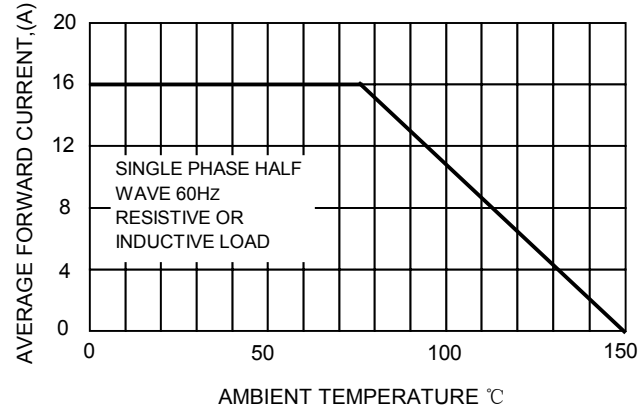


FIG.2-TYPICAL REVERSE CHARACTERISTICS

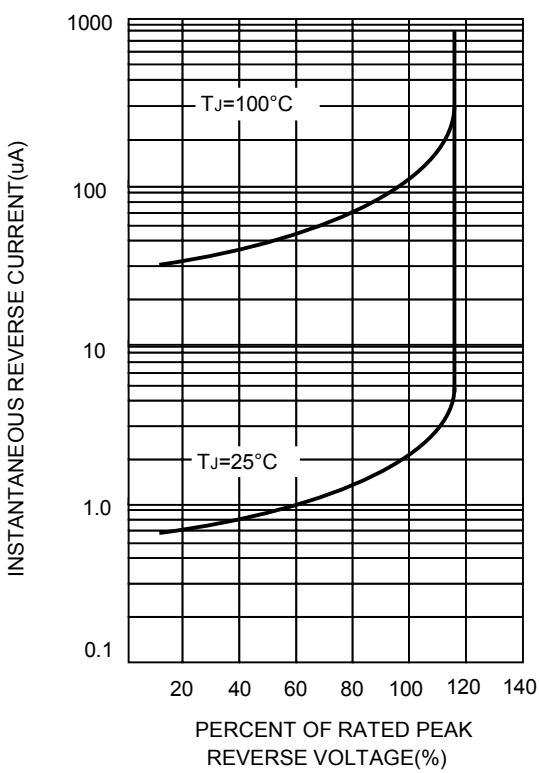


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

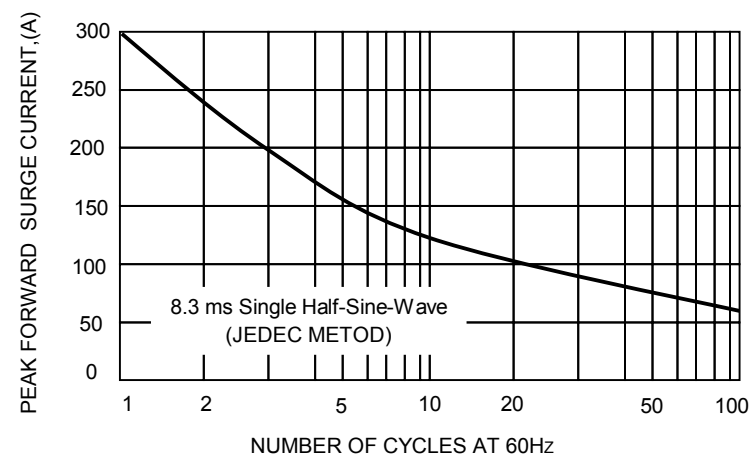


FIG.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

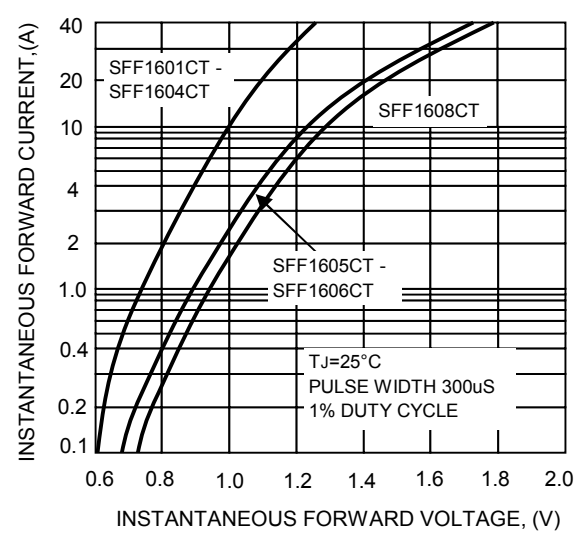


FIG.5-TYPICAL JUNCTION CAPACITANCE

