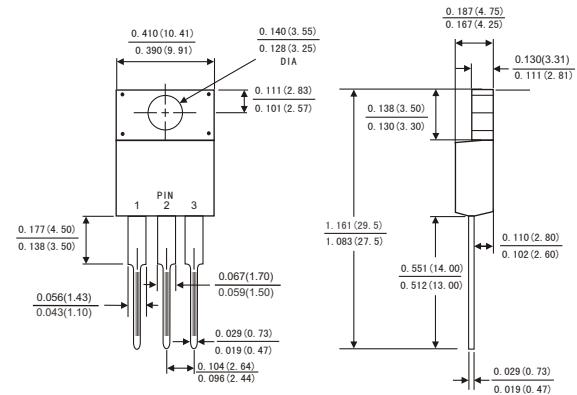


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss, high efficiency
- High current capability, Low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- Dual rectifier construction
- High temperature soldering guaranteed: 260°C/10 seconds,, 0.25"(6.35mm) from case
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

- Case: JEDEC ITO-220AB molded plastic body
- Terminals: Lead solderable per MIL-STD-750, method 2026
- Polarity: As marked
- Mounting Position: Any
- Weight: 0.08ounce, 2.24 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified, Single phase, half wave, resistive or inductive load. For capacitive load, derate by 20%).

	Symbols	SRF 1620CT	SRF 1630CT	SRF 1640CT	SRF 1650CT	SRF 1660CT	SRF 1680CT	SRF 16100CT	SRF 16150CT	SRF 16200CT	Units
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts
Maximum average forward rectified current (see Fig.1)	I _(AV) Per leg Total device						8.0 16.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}						200.0				Amps
Maximum instantaneous forward voltage at 16.0 A	V _F		0.60		0.75		0.85		0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage (Note 1)	I _R T _c =25°C T _c =125°C					0.2					mA
			30				50				
Typical thermal resistance (Note 2)	R _{θJC}				3.0						°C/W
Operating junction temperature range	T _J				-65 to +150						°C
Storage temperature range	T _{STG}				-65 to +150						°C

Notes: 1. Pulse test: 300 μs pulse width, 1% duty cycle

2. Thermal resistance from junction to case



星合电子
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SRF1620CT THRU SRF16200CT

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

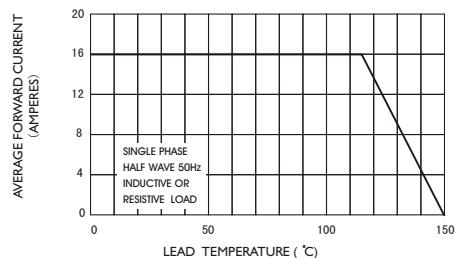


FIG.4-TYPICAL JUNCTION CAPACITANCE

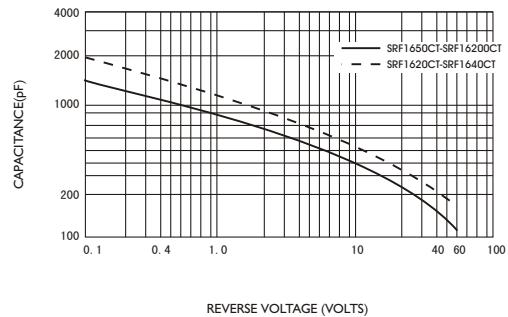


FIG.5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

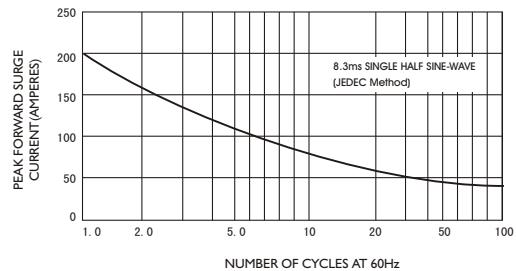


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

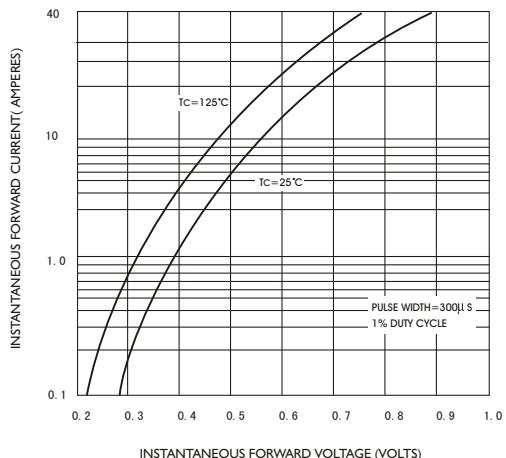


FIG.3-TYPICAL REVERSE CHARACTERISTICS

