

SRF1520CT THRU SRF1560CT

SCHOTTKY BARRIER RECTIFIERS

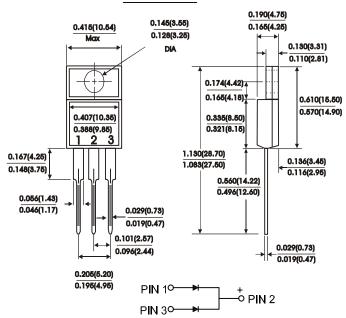
ITO-220AB

FEATURES:

- Plastic package Underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive centertap
- Metal silicon junction
- Majority carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High temperature soldering guaranteed: 250°C/10 seconds, 0.25"(6.35mm) from case

MECHANICAL DATA

Case : JEDEC ITO-220AB molded plastic Teminals : Leads solderable per MiL-STD-750 Method 2026 Polarity : As marked Mounting Postition: Any Mounting Torque 5 In - Ibs.max Weight: 0.08 ounce, 2.24 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Characteristic	Symbol	SRF 1520CT	SRF 1530CT	SRF 1535CT	SRF 1540CT	SRF 1545CT	SRF 1550CT	SRF 1560CT	Units
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	35	40	45	50	60	Volts
Maximum RMS voltage	V _{RMS}	14	21	25	28	32	35	42	Volts
Maximum DC blocking voltage	V _{DC}	20	30	35	40	45	50	60	Volts
Maximum average forward rectified current at Tc = 125 $^\circ\!\mathrm{C}$	I _(AV)	15							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)(Per leg)	I _{FSM}	150							Amps
Maximum instantaneous forward voltage (Per leg)(NOTE 2)	VF	0.63 0.75						Volts	
Maximum instantaneous reverse current at rated DC blocking voltage (Per leg)(NOTE 2) $Tc = 25 \degree C$ Tc = 125 \degree C	IR	0.5 50						mA	
Typical thermal resistance (Per leg)(NOTE 1)	R _{th} -JC	5.0							°C/W
Operating temperature range	Тј	-65to+150						°C	
Storage temperature range	T _{Stg}	-65to+175						°C	

NOTES:

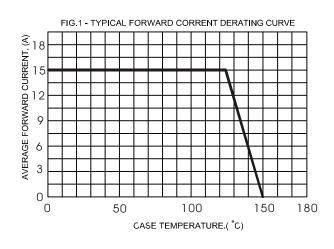
(1)Thermal resistance from junction to case

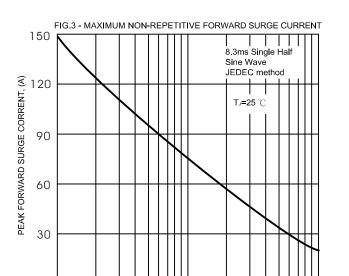
(2)Pulse test: 300 us pulse width, 1% duty cycle

(3)Marking : <u>SRF1520CT</u> = <u>SRF1520</u> (Whitout Marking "CT") Symbol Marking Symbol



RATINGS AND CHARACTERISTIC CURVES



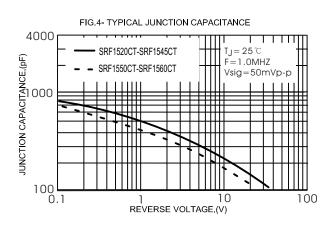


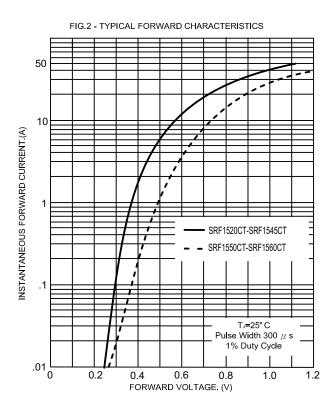
10

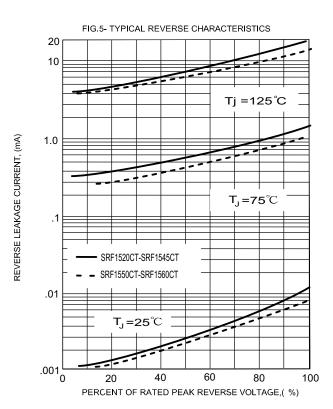
NUMBER OF CYCLES AT 60Hz

0

1







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100

50

DACO SEMICONDUCTOR CO., LTD. SRF1520CT THRU SRF1560CT

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