SCHOTTKY BARRIER RECTIFIERS

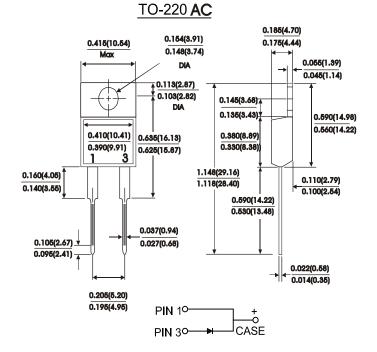
FEATURES:

- Plastic package Underwriters Laboratory
 Flammability Classification 94V-0
- 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 TO-220AC molded plastic
Teminals: Leads solderable per Mil-STD-750

Method 2026
Polarity: As marked
Mounting Postition: Any
Mounting Torque 5 In - Ibs.max
Welght: 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%.

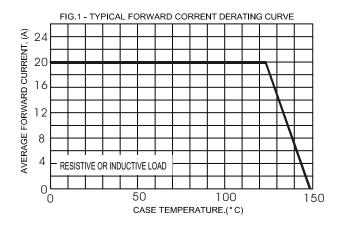
Characteristic	Symbol	SR2020	SR2030	SR2035	SR2040	SR2045	SR2050	SR2060	Units
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	35	40	45	50	60	Volts
Maximum RMS voltage	V _{RMS}	14	21	25	28	32	35	42	Volts
Maximum DC blocking voltage	V _{DC}	20	30	35	40	45	50	60	Volts
Maximum average forward rectified current at $Tc=125^{\circ}\!$	Io	20							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	300						Amps	
Maximum instantaneous forward voltage (NOTE 2) IF=20A	V _F	0.65 0.72						Volts	
$\begin{array}{ll} \text{Maximum instantaneous reverse} \\ \text{current at rated DC blocking} \\ \text{voltage (NOTE 2)} \\ \end{array} \qquad \begin{array}{ll} \text{Tc=25^{\circ}C} \\ \text{Tc=125^{\circ}C} \end{array}$	l ID	1.0 100						mA	
Typical thermal resistance (NOTE 1)	R _{th} -JC	2.0							°C/W
Operating temperature range	TJ	-65to+150							$^{\circ}\mathbb{C}$
Storage temperature range	T _{Stg}	-65to+175							$^{\circ}\!\mathbb{C}$

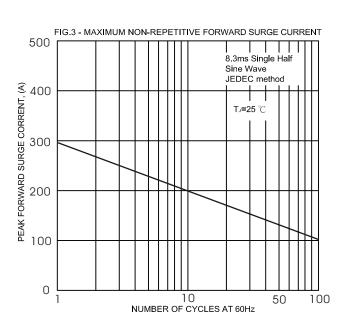
NOTES:

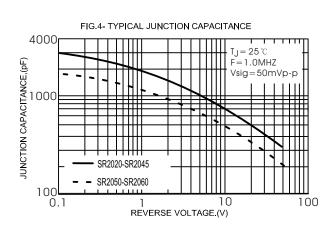
(1)Thermal resistance from junction to case

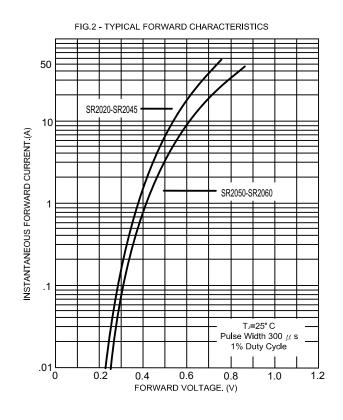
(2)Pulse test: 300 us pulse width, 1% duty cycle

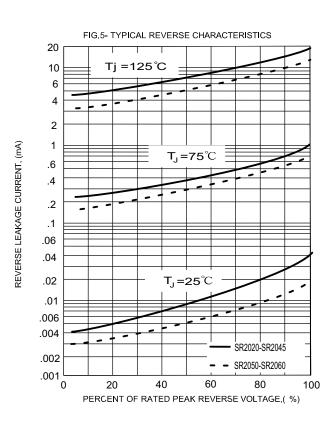
RATINGS AND CHARACTERISTIC CURVES











Feb. 2020

Disclaimer

DACO Semiconductor reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein.

DACO Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does DACO Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.

Purchasers is responsible for its products and applications using DACO Semiconductor products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by DACO Semiconductor. "Typical" parameters which may be provided in DACO Semiconductor data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts.

DACO Semiconductor products are not designed, authorized or warranted to be suitable for use in life support, life-critical or safety-critical systems or equipment, nor in applications where failure or malfunction of DACO Semiconductor's product can reasonably be expected to result in personal injury, death or severe property or environmental damage. DACO Semiconductor accept no liability for inclusion and/or use of DACO Semiconductor's products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

Purchasers buy or use DACO Semiconductor products for any such unintended or unauthorized application, Purchasers shall indemnify and hold DACO Semiconductor and its suppliers and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that DACO Semiconductor was negligent regarding the design or manufacture of the part.

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or any information storage or retrieval system, or otherwise, without the prior written permission of DACO Semiconductor Co., Ltd.

Feb. 2020