



SCHOTTKY BARRIER RECTIFIERS

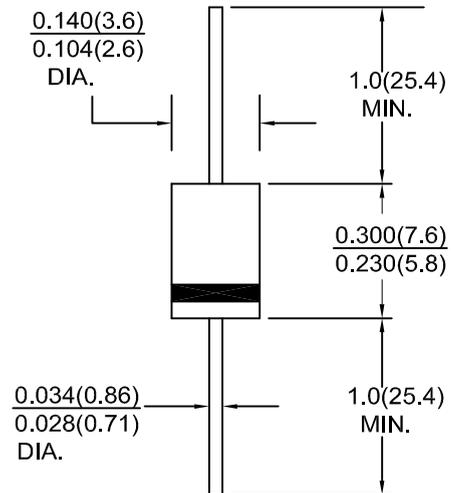
DO-204AC(DO-15)

FEATURES:

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- 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
- High temperature soldering:
250°C /10 second at terminals,0.375:(9.5mm)lead length,5lbs,(2.3kg)tension

MECHANICAL DATA

Case: JEDEC DO-15 molded plastic
 Terminals: Plated axial lead, solderable per MIL-STD-750, Method 2026
 Polarity: Color band denotes cathode end
 Standard Packaging: Any
 Weight:0.014 ounces,0.039 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Characteristic	Symbol	SR 220	SR 230	SR 240	SR 250	SR 260	SR 280	SR 2A0	Units
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC voltage	V _{DC}	20	30	40	50	60	80	100	Volts
Maximum average forward rectified current at T _L =75°C	I _o	2.0							Amps
Peak forward surge current,8.3ms single half sine-wave auperimposed on rated load(JEDEC Method)	I _{FSM}	50							Amps
Maximum instantaneous forward voltage drop at 2.0A (NOTE 1)	V _F	0.55		0.70		0.85		Volts	
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 1)	I _R	Ta=25°C		1.0		Ta=100°C		10	mA
Typical thermal resistance (NOTE 3)	R _{th JA}	35.0							°C/W
Operating Junction temperature range	T _J	-55 to +125							°C
Storage temperature range	T _{stg}	-55 to +150							°C

NOTE : 1.Pulse test :300us width,1%duty cycle:
 2.Measured at 1 MHZ and applied reverse voltage of 4.0 volts
 3..Thermal resistance from junction to lead .and/or to ambient P.C.B mounted with 0.375"(9.5mm) lead length with 1.5X1.5"(38X38mm)copper pads



RATINGS AND CHARACTERISTIC CURVES

FIG.1 - MAXIMUM FORWARD CORRENT DERATING CURVE

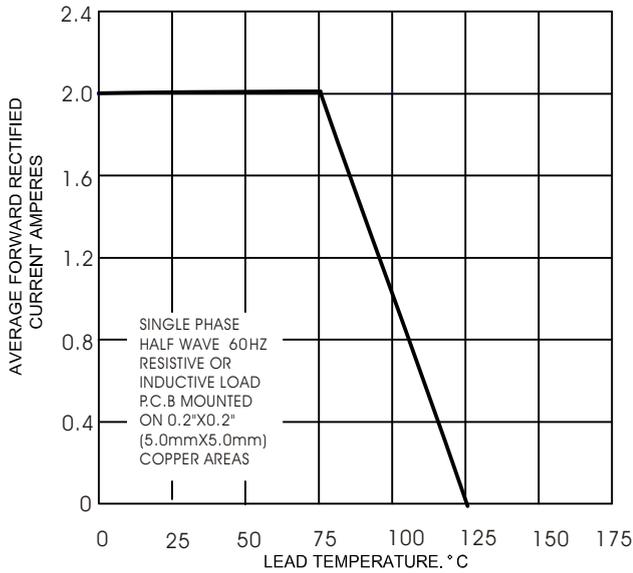


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

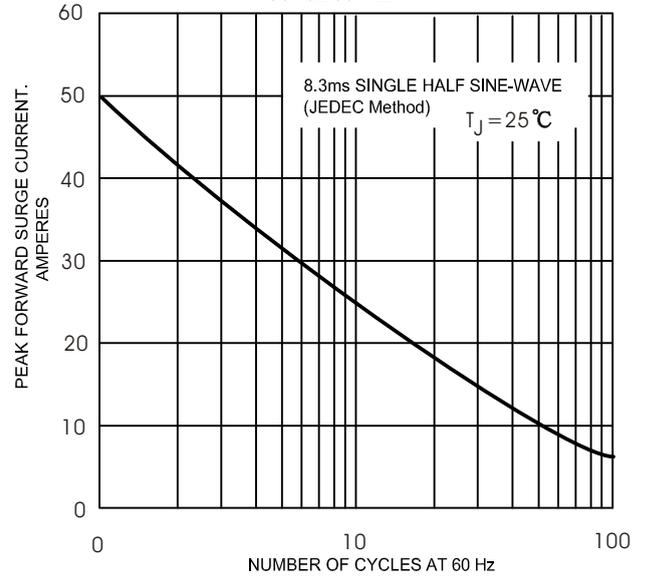


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

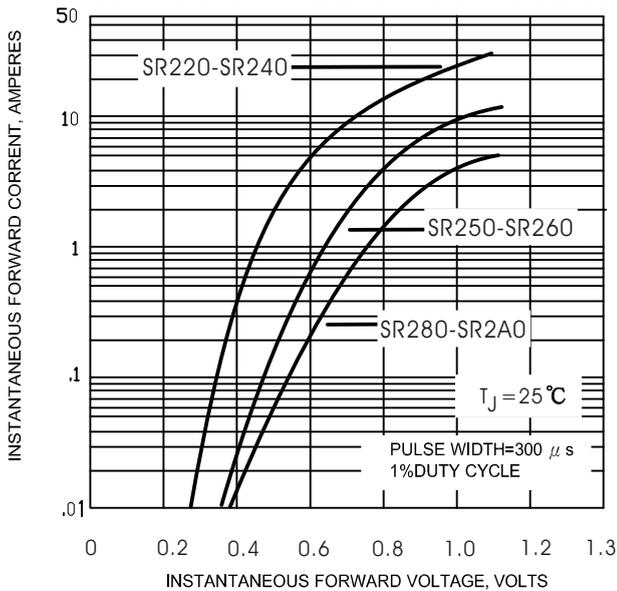
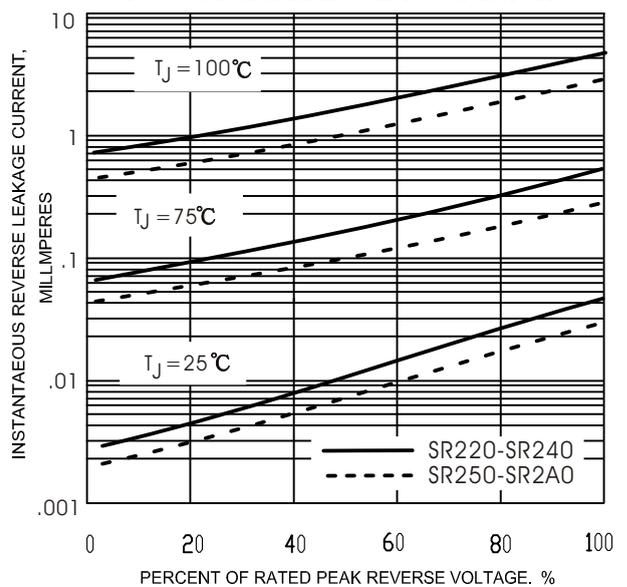


FIG.4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS





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.