

后芮驷(上海)电子有限公司

Horus International Electronics Co., LTD.

承认书

SPECIFICATION FOR APPROVAL

编号:

品名	DESCRIPTION:	SMT Standard Rectifier
规格	SPEC :	HRS-RCA-S3 SERIES
包装	PACKAGE:	卷装
客户	CUSTOMER:	
客户料号	CUSTOMER P/N:	

APPROVED BY

CUSTOMER	 HORUS
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DATA SHEET

SMT Standard Rectifier

P/N: RCA-S3 SERIES



RoHS
COMPLIANT

Halogen
Free

REACH

AEC-Q101



Features

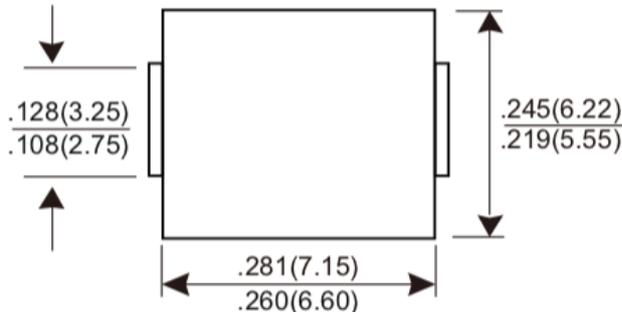
- High surge current capability
- Low forward voltage drops
- High Current capability
- Low reverse leakage current
- Automotive certification approved for AEC-Q101

Applications

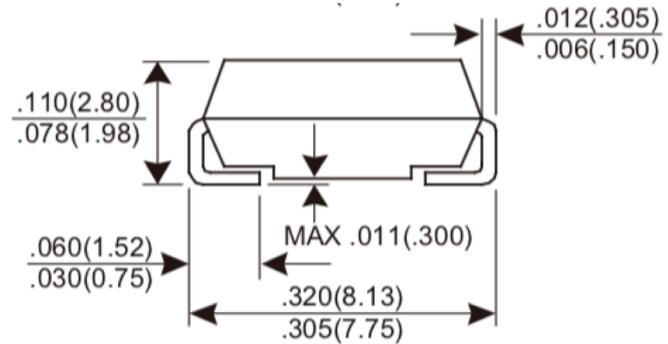
- For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for automotive.
- Voltage Range 50 to 1000 V Current 3.0 Ampere



Construction



Anode  Cathode 



Dimensions in inches and (millimeters)

Mechanical Data

Case: Molded plastic, SMC/DO-214AB

Epoxy: UL 94V-0 rate flame retardant

Terminals: Solderable per MIL-STD-750, method 2026

Polarity: Color band denotes cathode end

Mounting position: Any

Part Number	V _{RRM} (V)	V _{RMS} (V)	V _{DC} (V)	I _{F(AV)} (A)	I _{F(SM)} (A)	V _F (V)	I _R (μ A)	C _J (pF)	R _{θJA} ($^{\circ}$ C/W)	R _{θJL} ($^{\circ}$ C/W)	T _{J,Tstg} ($^{\circ}$ C)
RCA-S3A-A	50	35	40	3.0	100	1.15	10/250	60	47	13	-55 to +150
RCA-S3B-A	100	70	100	3.0	100	1.15	10/250	60	47	13	-55 to +150
RCA-S3D-A	200	140	200	3.0	100	1.15	10/250	60	47	13	-55 to +150
RCA-S3G-A	400	280	400	3.0	100	1.15	10/250	60	47	13	-55 to +150
RCA-S3J-A	600	420	600	3.0	100	1.15	10/250	60	47	13	-55 to +150
RCA-S3K-A	800	560	800	3.0	100	1.15	10/250	60	47	13	-55 to +150
RCA-S3M-A	1000	700	1000	3.0	100	1.15	10/250	60	47	13	-55 to +150



RATINGS AND CHARACTERISTICS CURVES SM8S SERIES

Fig.1 - Forward Current Derating Curve

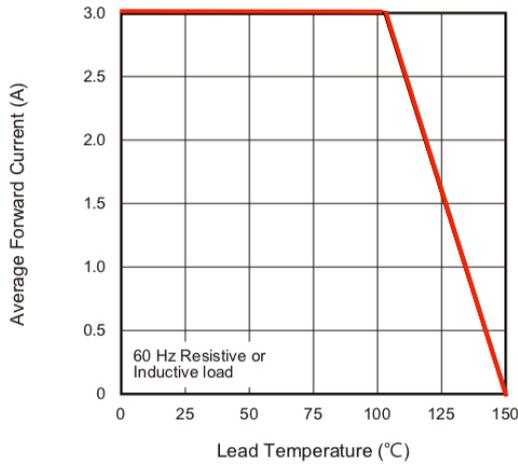


Fig.2 - Maximum Non-Repetitive Peak Forward Surge Current

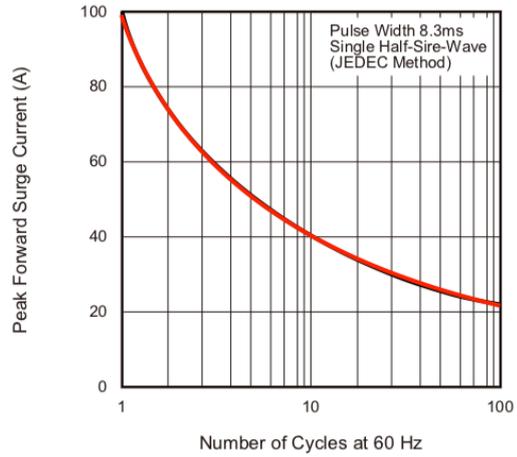


Fig.3 - Typical Instantaneous Forward Characteristics

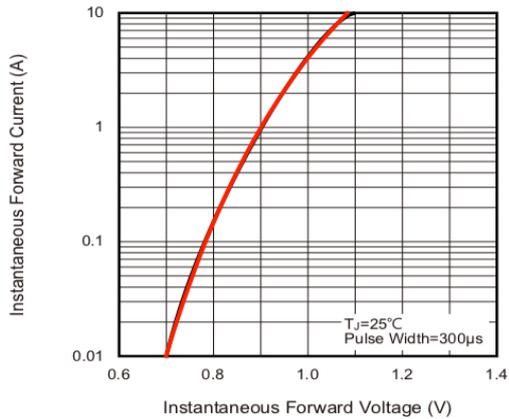


Fig.4 - Typical Reverse Leakage Characteristics

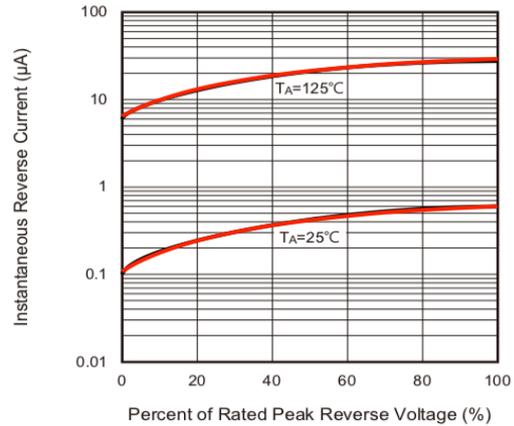
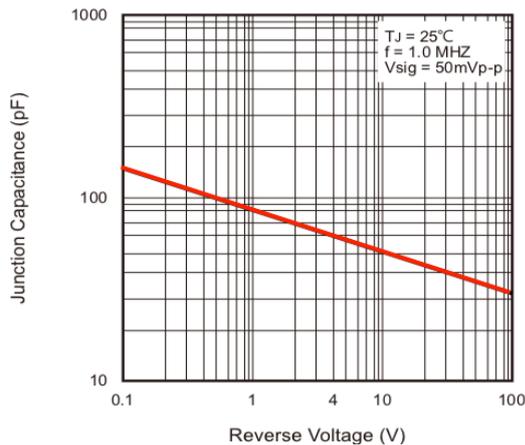
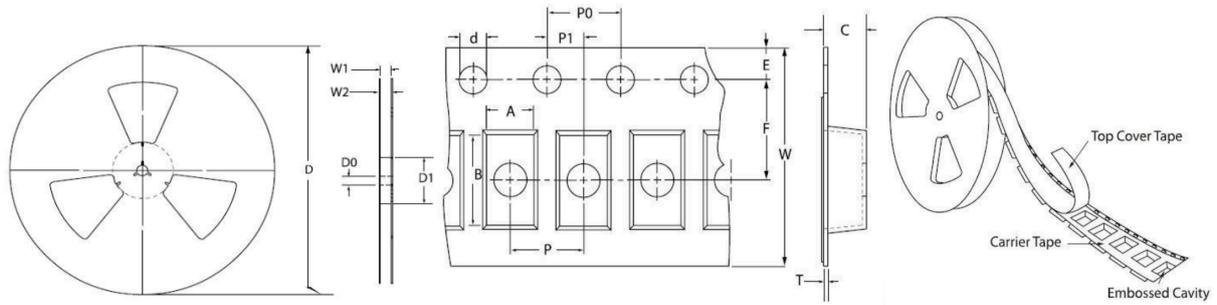


Fig.5 - Typical Junction Capacitance





Tape & Reel Specifications



A	B	C	d	D	D0	D1	E	F	P	P0	P1	T	W	W2	W1
6.05±0.1	8.31±0.1	3.29(Max.)	1.5±0.1	330±3.0	13.5±1	50(Min.)	1.75±0.1	7.5±0.05	8.0±0.1	4.0±0.1	2.0±0.1	0.6(Max.)	16.0±0.3	22.4(Max.)	16.6(Max.)

Application Notice

Storage Conditions To maintain the solder ability of terminal electrodes:

1. RDM products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
 2. Temperature and humidity conditions: -10~ 40°C and 30~70% RH.
 3. Recommended products should be used within 6 months from the time of delivery.
 4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- Transportation

1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
3. Bulk handling should ensure that abrasion and mechanical shock are minimized.

Modify records:

Version	Page	Description
V01	N/A	New issued