RS3A THRU RS3M

PINGWEI ENTERPRISE

3.0AMPS.FAST RECOVERY SURFACE MOUNT RECTIFIERS

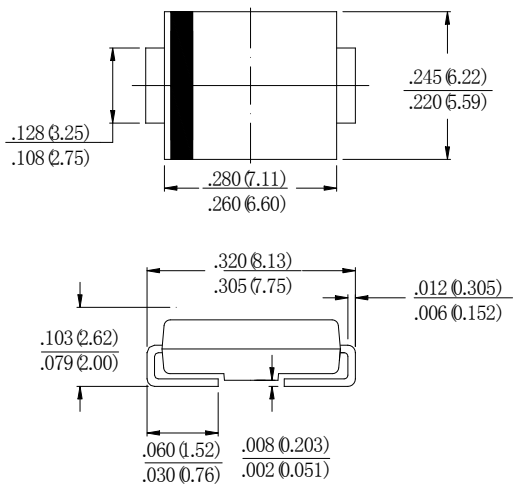
FEATURE

. Fast switching
. High current capability
. Low forward voltage drop
. Low power loss, high efficiency
. High surge capability
. High temperature soldering guaranteed:
260℃/10 seconds at terminals.
. For surface mounted application.
. Easy pick and place.

MECHANICAL DATA

. Case: Molded plastic
. Epoxy: UL94V-0 rate flame retardant
. Lead: MIL-STD- 202E, Method 208 guaranteed
. Polarity:Color band denotes cathode end
. Packaging:12mm tape per EIA STD RS-481
. Mounting position: Any

SMC（DO-214AB）



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Type Number	SYMBOL	RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T_A=55°C	$I_{F(AV)}$	3.0							A
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load (JEDEC method)	I_{FSM}	90.0							A
Maximum Forward Voltage at 3.0 A DC	V_F	1.3							V
Maximum DC Reverse Current @T_A =25°C at rated DC blocking voltage @T_A =125°C	I_R	5.0 100.0							μA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	150				250	500		ns
Typical Junction Capacitance (Note 2)	C_J	60							pF
Typical Thermal Resistance (Note 3)	$R_{(JA)}$	50							°C/W
Storage Temperature	T_{STG}	-55 to +150							°C
Operation Junction Temperature	T_J	-55 to +150							°C

Note:

1. Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Measured on P.C. Board with 0.2×0.2”(5.0×5.0mm)Copper Pad Areas.