

SURFACE MOUNT FAST RECOVERY RECTIFIER

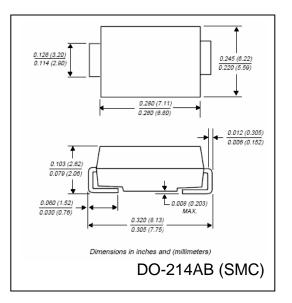
RS3A	THRU	RS3M	VOLTAGE RANGE	50 to 1000 Volts		
			CURRENT	3.0 Ampere		

FEATURES

- Glass passivated chip junction
- Built in strain relief
- Fast switching speed for high efficiency
- High temperature soldering guaranteed: 250°C / 10 seconds at terminals

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.007 ounce, 0.25 gram DO-214AB (SMC)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25^oC ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current, At $T_L = 75^{\circ}C$	I _(AV)	3.0							Amps
Peak Forward Surge Current									
8.3mS single half sine wave superimposed on	I _{FSM}	100							Amps
rated load (JEDEC method)									
Maximum Instantaneous Forward Voltage @ 3.0A	$V_{\rm F}$	1.3							Volts
Maximum DC Reverse Current at Rated $T_A = 25 \ ^{o}C$	т	10							μA
DC Blocking Voltage per element $T_A = 125 \ ^{O}C$	I _R	25							
Maximum Reverse Recovery Time Test conditions $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$	t _{rr}	150 25			250	50 500		nS	
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)	C _J	60							pF
Tunical Thormal Desistance (Note 1)	$R_{\theta JA}$	50							
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$	15							
Operating Junction Temperature Range	T _J	(-55 to +150)							°С
Storage Temperature Range	T _{STG}	(-55 to +150)							°С

Notes:

1. Thermal resistance from junction to ambient and from junction to lead mounted on PCB



RATINGS AND CHARACTERISTIC CURVES RS2A THRU RS2M

