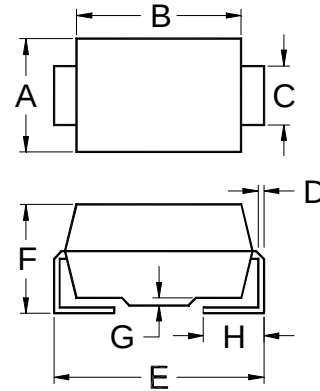


**RS3A THRU RS3M**
SURFACE MOUNT FAST
SWITCHING RECTIFIER**TECHNICAL**
SPECIFICATION**VOLTAGE: 50 TO 1000V CURRENT: 3.0A****FEATURES**

- Ideal for surface mount pick and place application
- Low profile package
- Built-in strain relief
- High surge capability
- Glass passivated chip
- Fast recovery for high efficiency
- High temperature soldering guaranteed: 260°C/10sec/at terminal

MECHANICAL DATA

- Terminal: Plated leads solderable per MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-O recognized flame retardant epoxy
- Polarity: Color band denotes cathode

SMC/DO-214AB

	A	B	C	D
MAX.	.245(6.22)	.280(7.11)	.124(3.15)	.012(0.305)
MIN.	.220(5.59)	.260(6.60)	.108(2.75)	.006(0.152)
	E	F	G	H
MAX.	.320(8.13)	.096(2.44)	.008(0.203)	.060(1.52)
MIN.	.305(7.75)	.084(2.13)	.004(0.102)	.030(0.76)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	RS 3A	RS 3B	RS 3D	RS 3G	RS 3J	RS 3K	RS 3M	UNITS
Maximum Repetitive 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 (T _L =75°C)	I _{F(AV)}	3.0							A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I _{FSM}	100							A
Maximum Instantaneous Forward Voltage (at rated forward current)	V _F	1.3							V
Maximum DC Reverse Current T _a =25°C (at rated DC blocking voltage) T _a =125°C	I _R	5.0 250							μA μA
Maximum Reverse Recovery Time (Note 1)	t _{rr}	150				250	500		nS
Typical Junction Capacitance (Note 2)	C _J	50							pF
Typical Thermal Resistance (Note 3)	R _{θ(ja)}	25							°C/W
Storage and Operation Junction Temperature	T _{STG} , T _J	-50 to +150							°C

Note:

- 1.Reverse recovery condition $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $t_{rr}=0.25\text{A}$.
- 2.Measured at 1.0 MHz and applied voltage of 4.0V_{dc}
- 3.Thermal resistance from junction to terminal mounted on 5×5mm copper pad area