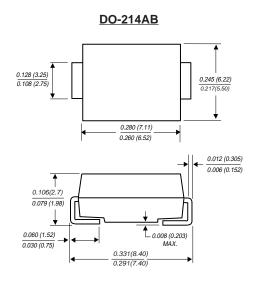
# **RS5A THRU RS5M**

### SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 5.0 Amperes



Dimensions in inches and (millimeters)

#### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- High temperature soldering guarantéed: 250°C/10 seconds at terminals
- Glass passivated chip junction

#### **MECHANICAL DATA**

Case: JEDEC DO-214AB molded plastic body over passivated chip Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.22 gram

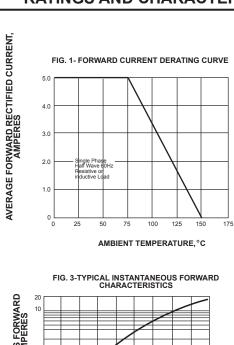
#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

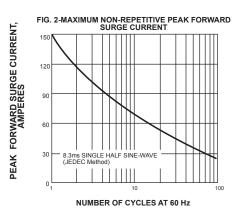
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

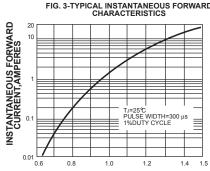
	SYMBOLS	RS5A	RS5B	RS5D	RS5G	RS5J	RS5K	RS5M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=75℃	l(AV)	5.0							Amps
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	Ifsm 150.0							Amps
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 5.0A	VF	1.3							Volts
Maximum DC reverse current T <sub>A</sub> =25℃	Τ.	10.0							μА
at rated DC blocking voltage Ta=100℃	l <sub>R</sub>	IR 250.0							μΑ
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	00	ns
Typical junction capacitance (NOTE 2)	Cı	78.0						pF	
Typical thermal resistance	Reja	50.0						°C/W	
Operating junction and storage temperature range	Тл,Твтс	-65 to +150							°C

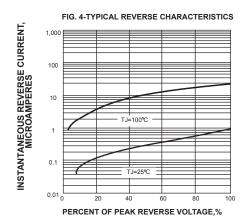
Note: 1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

## **RATINGS AND CHARACTERISTIC CURVES RS5A THRU RS5M**









INSTANTANEOUS FORWARD VOLTAGE, VOLTS

