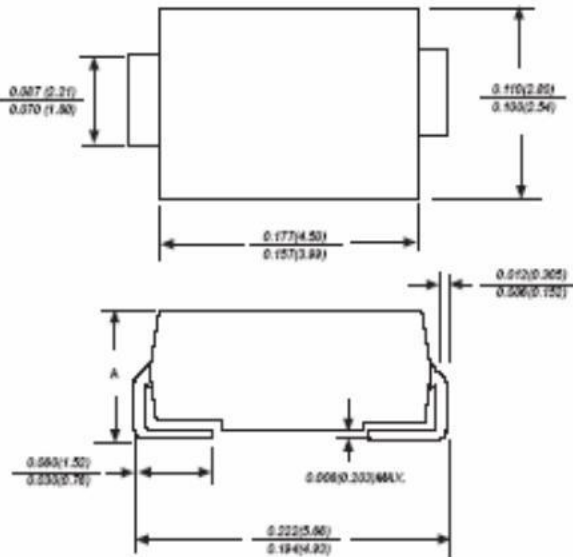


**SURFACE MOUNT ULTRA FAST RECTIFIER**

*Reverse Voltage - 50 to 1000 Volts    Forward Current - 1.0 Ampere*

DO-214AC(SMA)



SMA SMA(H)  
 A: 0.066(2.42) 0.122(3.12)  
 0.078(1.98) 0.110(2.82)  
 Dimensions in inches and (millimeters)

**FEATURES**

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Ultra fast switching for high efficiency
- ◆ Low reverse leakage
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed 250°C/10 seconds at terminals

**MECHANICAL DATA**

Case: JEDEC DO-214AC molded plastic body  
 Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026  
 Polarity: Color band denotes cathode end  
 Mounting Position: Any  
 Weight: 0.003 ounce, 0.093 grams  
 0.004 ounce, 0.111 grams SMA(H)

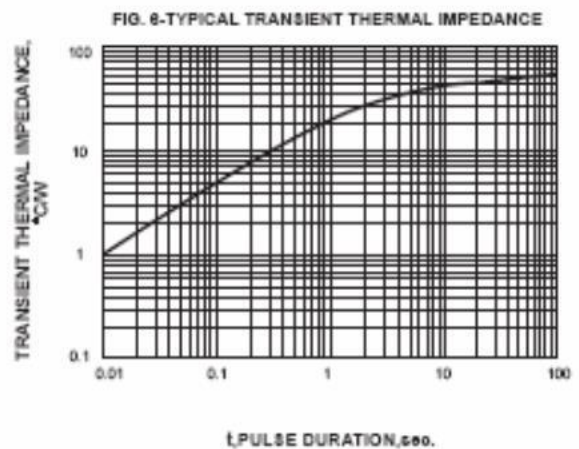
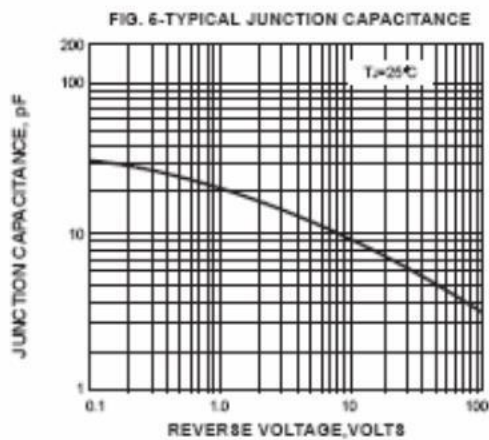
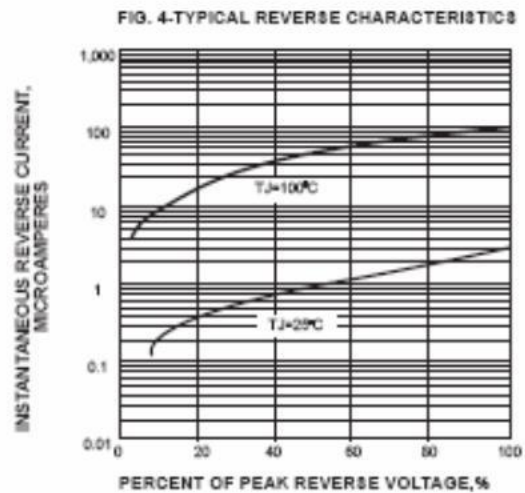
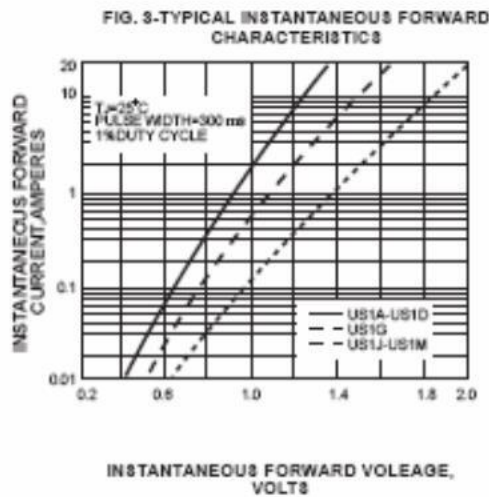
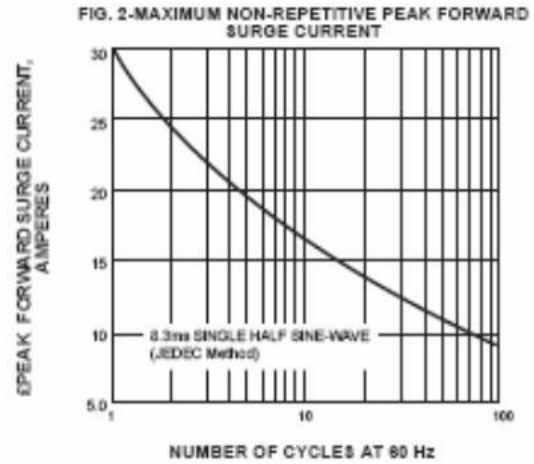
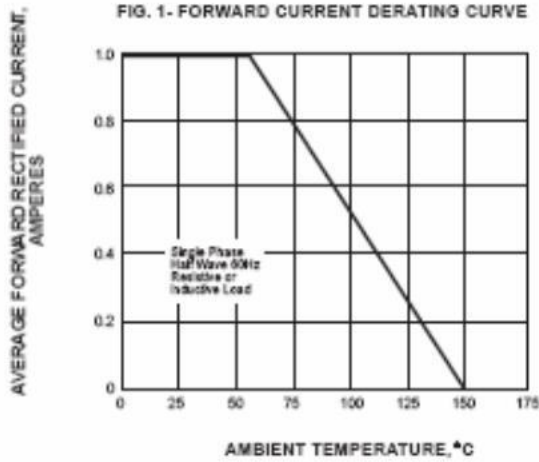
**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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	US1A	US1B	US1D	US1G	US1J	US1K	US1M	UNITS	
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	VOLTS	
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	VOLTS	
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	VOLTS	
Maximum average forward rectified current at T <sub>L</sub> =55°C	I <sub>(AV)</sub>	1.0							Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30.0							Amps	
Maximum instantaneous forward voltage at 1.0A	V <sub>F</sub>	1.0		1.4		1.7			Volts	
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	I <sub>R</sub>	5.0 50.0							nA	
Maximum reverse recovery time (NOTE 1)	t <sub>rr</sub>	50				75				ns
Typical junction capacitance (NOTE 2)	C <sub>J</sub>	15.0							pF	
Typical thermal resistance (NOTE 3)	R <sub>qJA</sub>	50.0							°C/W	
Operating junction and storage temperature range	T <sub>J</sub> , T <sub>STG</sub>	-65 to +150							°C	

Note: 1. Reverse recovery condition I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>rr</sub>=0.25A  
 2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.  
 3. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES US1A THRU US1M



单击下面可查看定价，库存，交付和生命周期等信息

[>>COMON\(阔迈\)](#)