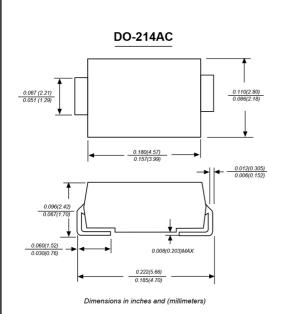


US1A THRU US1M

SURFACE MOUNT ULTRA FAST RECTIFIER
Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere



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

SYMBOLS US1A US1B US1D US1G US1J US1K US1M

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**: 0.058 grams

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%.

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=55°C	l(AV)	1.0						Amp					
Peak forward surge current													
8.3ms single half sine-wave superimposed on	Ігѕм	30.0							Amps				
rated load (JEDEC Method)													
Maximum instantaneous forward voltage at 1.0A	VF		1.0		1.3		1.7		Volts				
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	lR				5.0 50.0				uA				
Maximum reverse recovery time (NOTE 1)	trr	50				75	ns						
Typical junction capacitance (NOTE 2)	Cı		15.0						pF				
Typical thermal resistance (NOTE 3)	Rqja		50.0										
Operating junction and storage temperature range	ТЈ,Тѕтс		-65 to +150						°C				
		•											

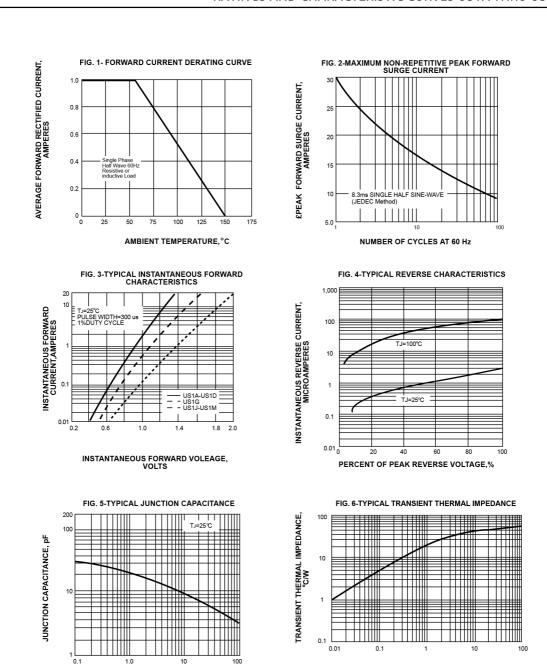
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

CHONGQING DABIAO ELECTRONIC TECHNOLOGY CO.,LTD.



RATINGS AND CHARACTERISTIC CURVES US1A THRU US1M



CHONGQING DABIAO ELECTRONIC TECHNOLOGY CO.,LTD.

t.PULSE DURATION.sec.

REVERSE VOLTAGE, VOLTS