

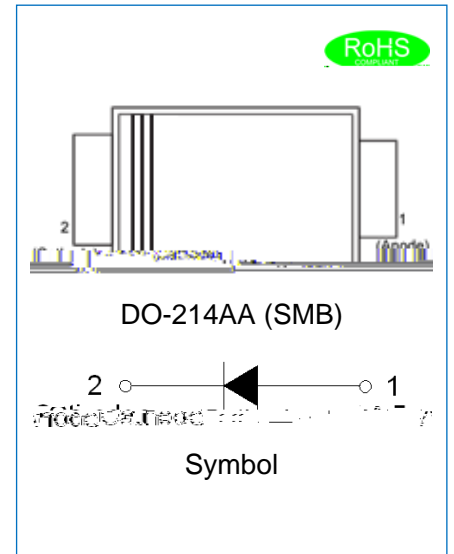


US2A~US2M ULTRA FAST RECOVERY RECTIFIER

Rev.2.3

DESCRIPTION

- ◇ Plastic package has underwriters laboratory flammability classification 94V-0
- ◇ For surface mounted applications in order to optimize board space
- ◇ Glass passivated chip junction
- ◇ Lead free in comply with EU RoHS 2011/65/EU directives
- ◇ Ultrafast recovery time for high efficiency



MECHANICAL DATA

- ◇ Case: JEDEC DO-214AA molded plastic
- ◇ Terminals: Solder plated, solderable per J-STD-002
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: 0.1 gram

ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

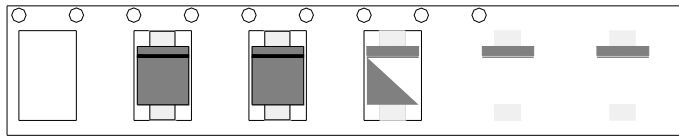
(Rating at 25 ambient temperature unless otherwise specified.)

Parameter	Symbol	US2A	US2B	US2D	US2G	US2J	US2K	US2M	Unit		
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 current at $T_L=115$	$I_{F(AV)}$	2.0							A		
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	60				50			A		
Maximum forward voltage @ $I_F=2A$	V_F	1.0		1.3		1.7			V		
Maximum DC reverse current at rated DC blocking voltage	$T_j=25$	I_R							5.0		μA
	$T_j=150$										
Maximum reverse recovery time $I_F=0.5A, I_R=1A, I_{rr}=0.25A$	t_{rr}	50				75			ns		

US2A~US2M

JieJie Microelectronics CO. , Ltd

TAPE AND REEL SPECIFICATION-SMB



CHARACTERISTICS CURVE

FIG.1: Typical forward characteristics (25)

VF=0.95V 200V
VF=1.25V 400V
1.6

FIG.2: Typical reverse characteristics

25 0.1uA
150 50uA
120