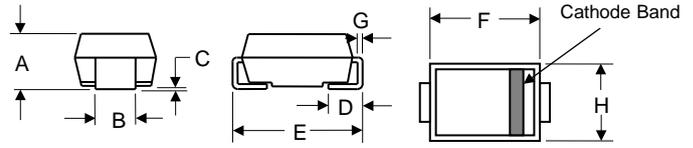


Features

- * Glass passivated junction chip
- * Ideal for automated placement
- * Low profile package
- * Fast switching for high efficiency
- * Moisture sensitivity level: level 1, per J-STD-020



RoHS
COMPLIANT



DO-214AC(SMA)				
DIM.	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.078	0.090	1.98	2.29
B	0.052	0.058	1.32	1.47
C	---	0.008	---	0.20
D	0.030	0.052	0.76	1.32
E	0.193	0.208	4.90	5.28
F	0.157	0.177	3.99	4.50
G	0.006	0.012	0.152	0.305
H	0.100	0.110	2.54	2.79

Mechanical Data

- * Case: DO-214AC (SMA)
- * Molding compound, UL flammability classification rating 94V-0
- * Terminal: Matte tin plated leads, solderable per JESD22-B102
Meet JESD 201 class 1A whisker test
- * Polarity: Indicated by cathode band
- * Weight: 0.06 g (approximately)

Maximum Ratings and Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	US2AA	US2BA	US2DA	US2FA	US2GA	US2JA	US2KA	US2MA	UNIT	
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400	600	800	1000	V	
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	560	700	V	
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	800	1000	V	
Maximum average forward rectified current	I _{F(AV)}	1.5								A	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	50								A	
Maximum instantaneous forward voltage (Note 1)@ 1.5 A	V _F	1			1.3		1.7			V	
Maximum reverse current @ rated V _R T _J =25 °C T _J =125 °C	I _R	5 100								μA	
Maximum reverse recovery time (Note 2)	T _{rr}	50					75				ns
Typical junction capacitance (Note 3)	C _j	50					30				pF
Typical thermal resistance	R _{θJA}	80								°C/W	
Operating junction temperature range	T _J	- 55 to +150									°C
Storage temperature range	T _{STG}	- 55 to +150									°C

Note 1: Pulse test with PW=300μs, 1% duty cycle Note 2: Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

Ratings and Characteristic Curves

FIG.1 FORWARD CURRENT DERATING CURVE

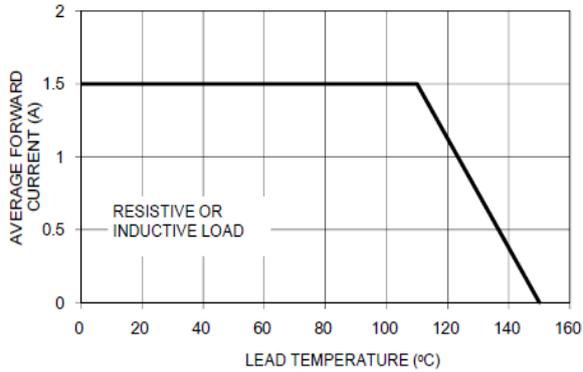


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

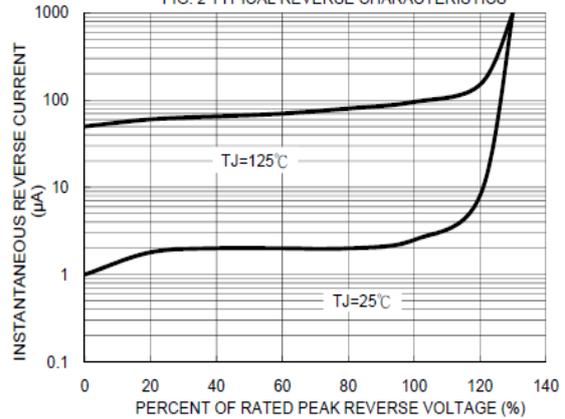


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

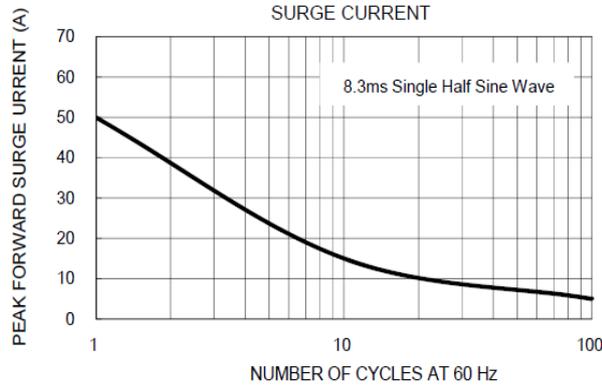


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

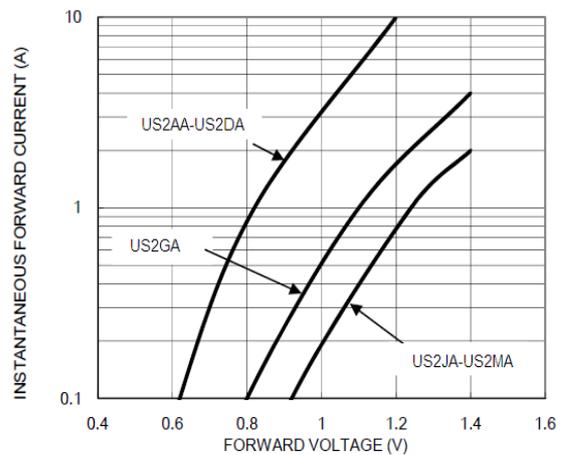


FIG. 5 TYPICAL JUNCTION CAPACITANCE

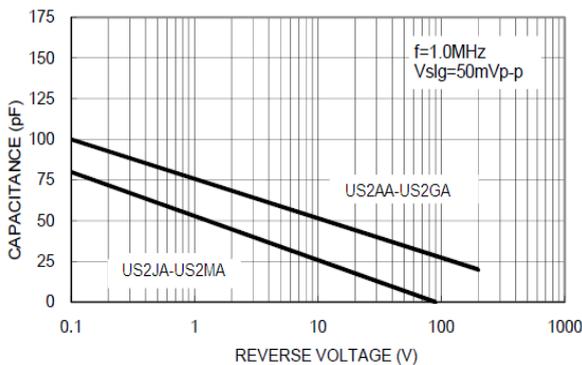
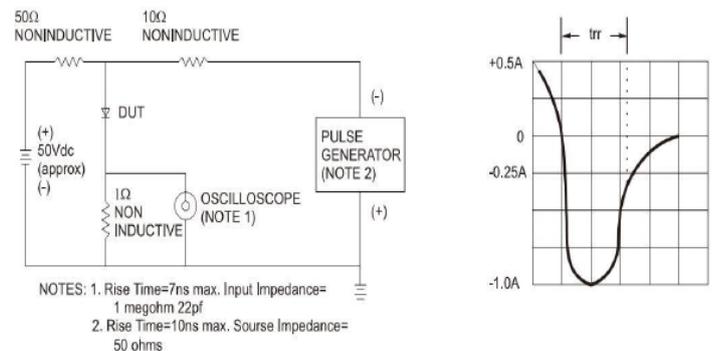


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





US2AA THRU US2MA

High Efficient Surface Mount Rectifiers

Ordering Information

Part No.	Package	Packing Code	Packing
US2AA THRU US2MA	DO-214AC(SMA)	R50	5000pcs/Reel

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