

Note:

Parameter	Symbol	Rating							Unit
		US1A	US1B	US1D	US1G	US1J	US1K	US1M	

- (1) P.C.B. mounted with 2.0 X 2.0" (5 X 5 cm) copper pad areas.
 (2) Measured at 1 MHz and applied reverse voltage of 4 V D.C.

Parameter	Symbol	Test condition	Rating							Unit
			US1A	US1B	US1D	US1G	US1J	US1K	US1M	
Maximum Instantaneous Forward Voltage	V_F	$I_F=1.0A$	1.0			1.3	1.65			V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I_R	$T_a=25$	5.0							uA
		$T_a=125$	100							
Maximum Reverse Recovery Time	T_{rr}	$I_F=0.5A$ $I_R=1.0A$ $I_{rr}=0.25A$	50				75			ns

Fig.1 Forward Current Derating Curve

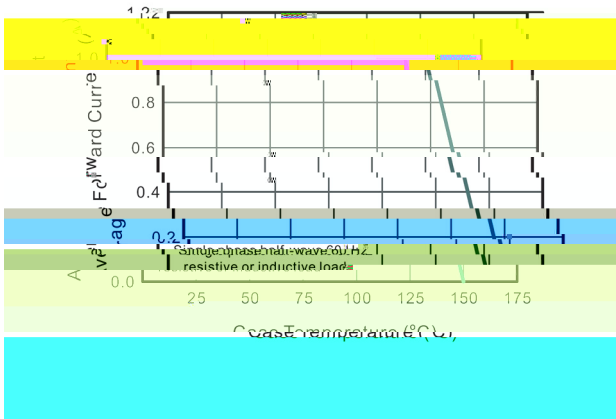


Fig.2 Typical Reverse Characteristics

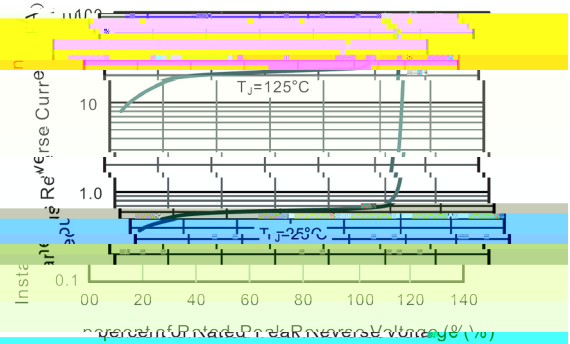


Fig.3 Typical Forward Characteristics

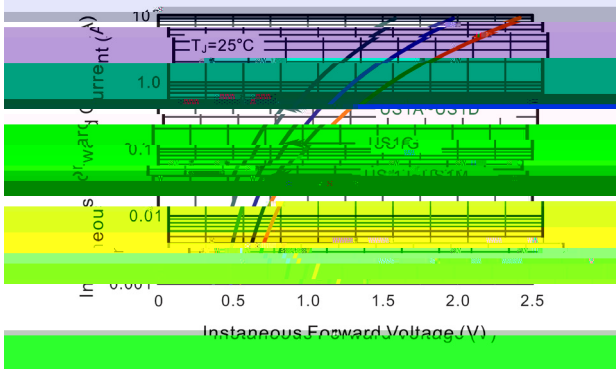


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

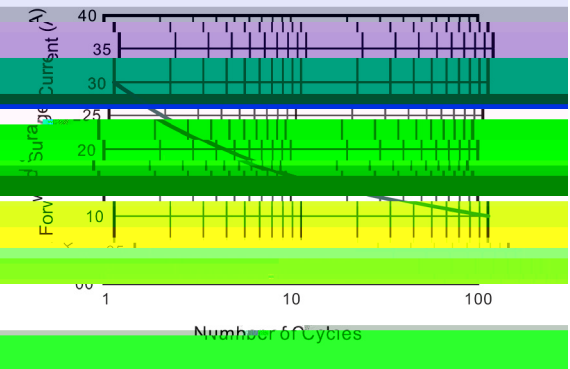


Fig.5- Typical Transient Thermal Impedance

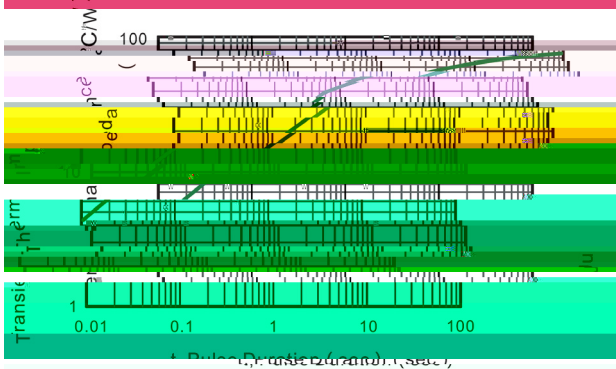
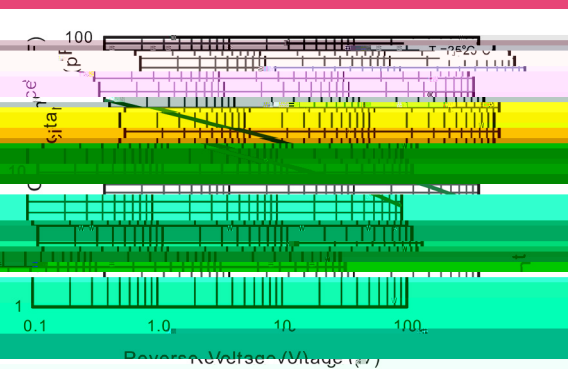
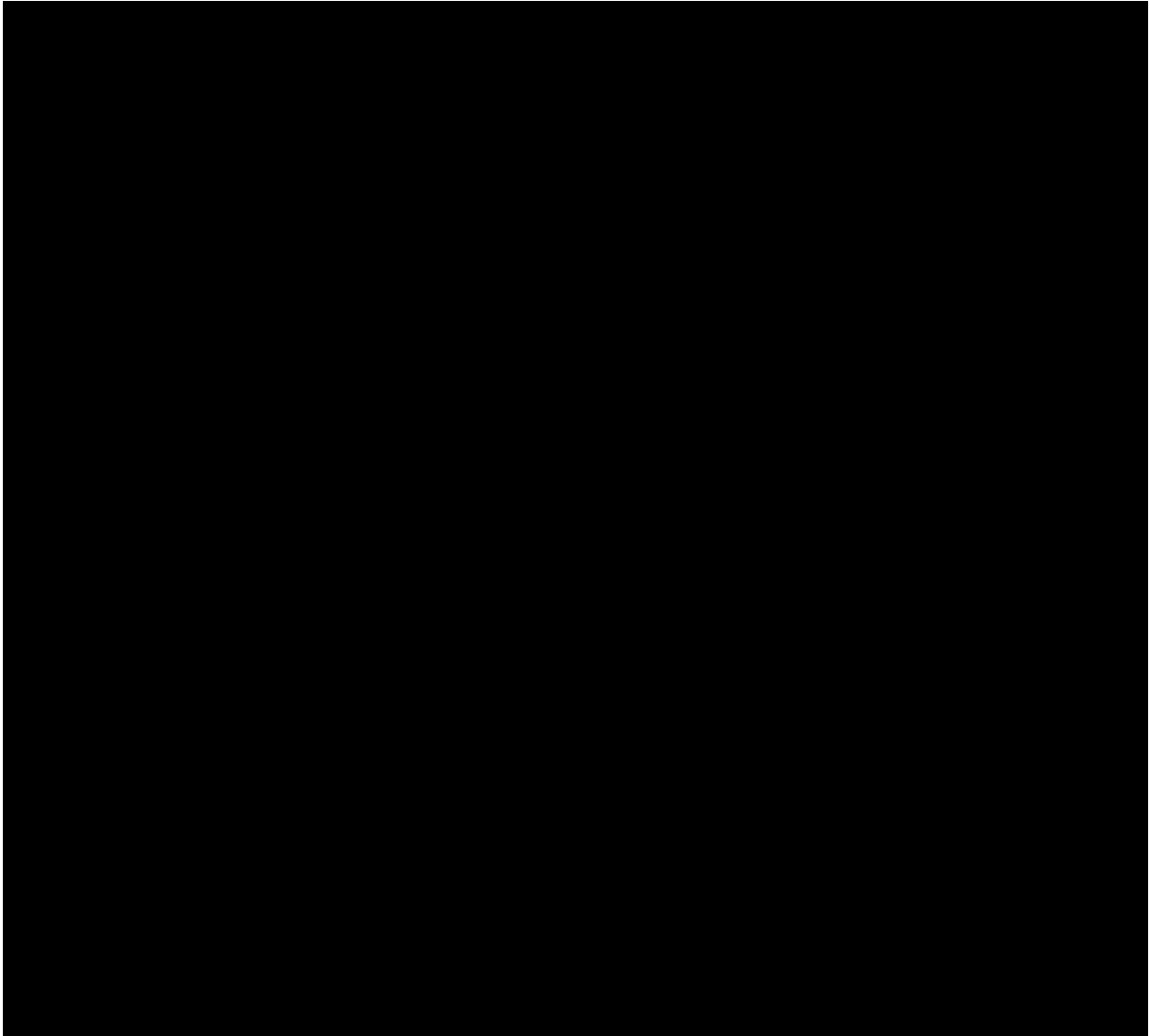
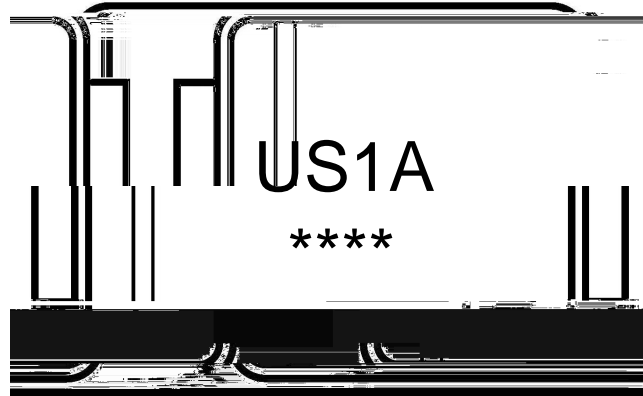


Fig.6 Typical Junction Capacitance







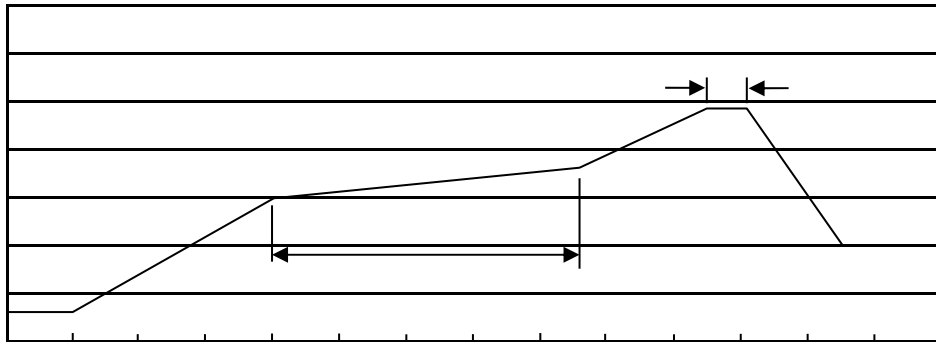
LJ(8

Note:

LJ(8 Product Type Code

Lot No. Code, code change with Lot No

Type number	Marking code
US1A	US1A
US1B	US1B
US1D	US1D
US1G	US1G
US1J	US1J
US1K	US1K
US1M	US1M

Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- | | | | |
|---|---------|-----------|---|
| 1 | 150 180 | 60 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | 5±0.5sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | 2 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SMA	5,000	2	10,000	7	70,000	13 x12	336x336x40	380x335x366