US1A~US1M

Rev.C Jun.-2024

/ Absolute Maximum Ratings(Ta=25)

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 areass.

(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

/ Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

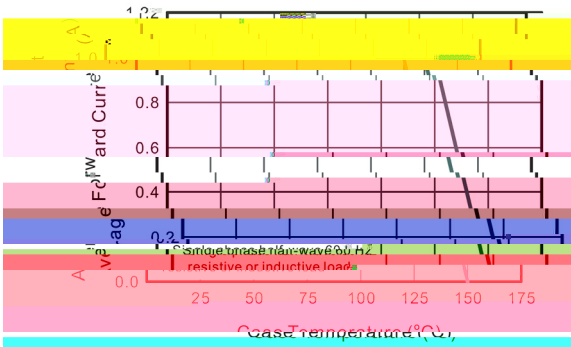


Fig.2 Typical Reverse Characteristics

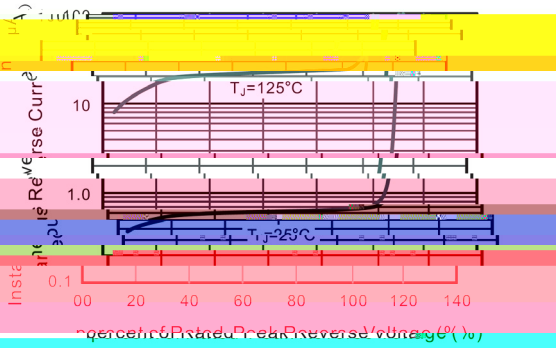


Fig.3 Typical Forward Characteristics

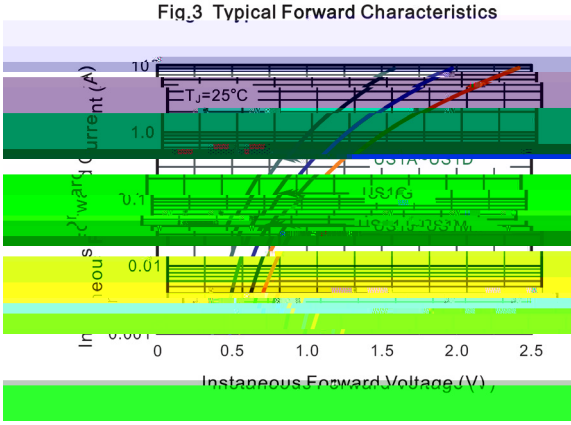


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current

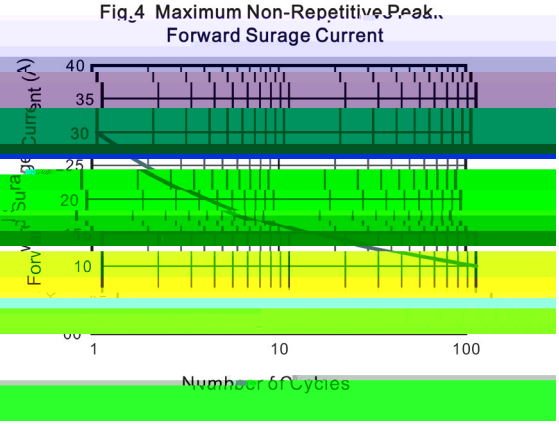


Fig.5- Typical Transient Thermal Impedance

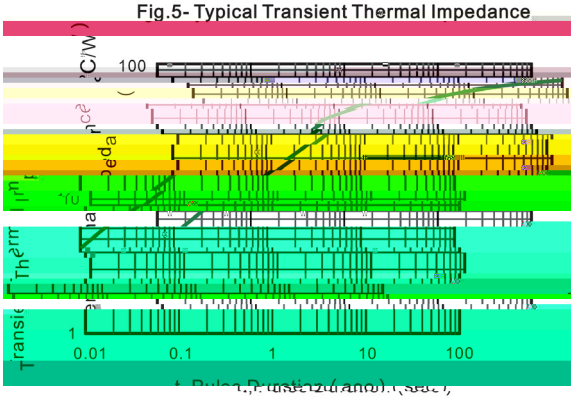
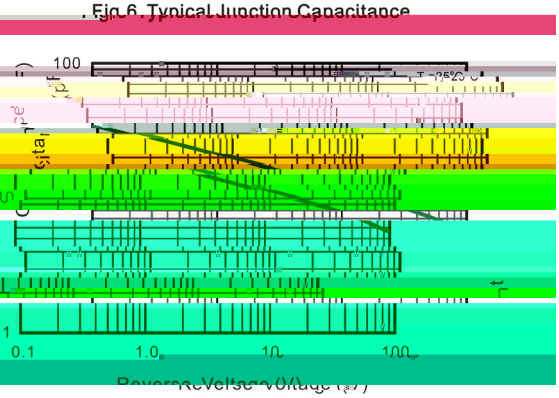


Fig.6 Typical Junction Capacitance



/ Package Dimensions



/ Marking Instructions



XV4D

****

Note:

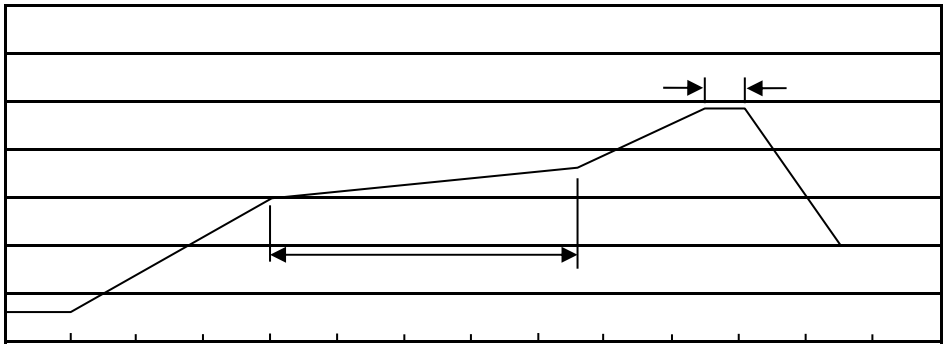
XV4D Product Type Code

**** Lot No. Code, code change with Lot No

Marking

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.

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension		(unit mm³)
	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 ×12	336×336×40	380×335×366

/ Notices