

1SS400HC
● FEATURES

- * Halogen-free type
- * Compliance to RoHS product
- * Fast switching speed
- * Surface mount package ideally suited for
- * Automatic insertion
- * High conductance
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0

● APPLICATION

- * For general purpose switching applications

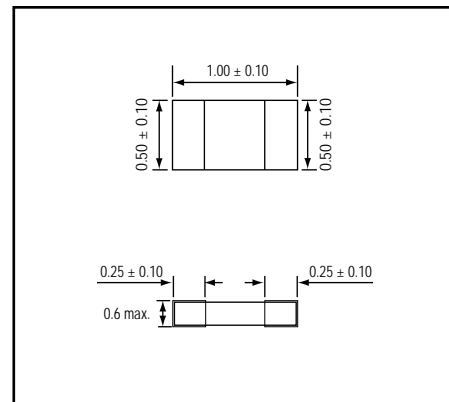
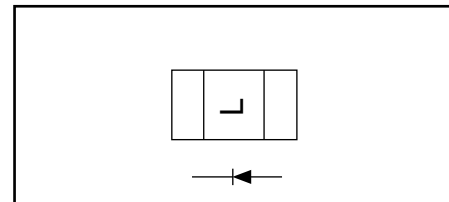
● MECHANICAL DATA

Case : Packed with FRP substrate and epoxy underfilled

Terminals : Pure Tin plated (Lead-Free),
solderable per MIL-STD-750, Method 2026.

● OUTLINE DIMENSIONS
Case : 0402

Unit : mm


● MARKING

Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating	Unit
Peak Reverse Voltage	VRRM		100	V
Reverse Voltage	VR		75	V
Maximum DC Blocking Voltage	VDC		75	V
Average Rectified Current Half	IF(AV)	Half wave rectification with resistive load f ≥ 50Hz	150	mA
Non-repetitive Peak Forward Surge Current	IFSM	t = 1 μs	2	A
		t = 8.3ms	1	
Junction Temperature	Tj		150	
Storage Temperature Range	TSTG		-65 to +150	

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 1mA	-	-	0.715	V
		IF = 10mA	-	-	0.855	
		IF = 50mA	-	-	1	
		IF = 100mA	-	-	1.1	
		IF = 150mA	-	-	1.25	
Reverse Current	IR	VR = 20V	-	-	25	nA
		VR = 75V	-	-	2	uA
		VR = 20V, TJ = 150	-	-	50	uA
Capacitance	Ctot	VR = 0V, f = 1MHz	-	2	4	pF
Reverse recovery time	TRRM	IF = 10mA to IR = 1mA, VR = 6V, RL = 100	-	1	4	nS

NOTES : Preliminary specification.

FIG. 1 - POWER DISSIPATION VS AMBIENT TEMPERATURE

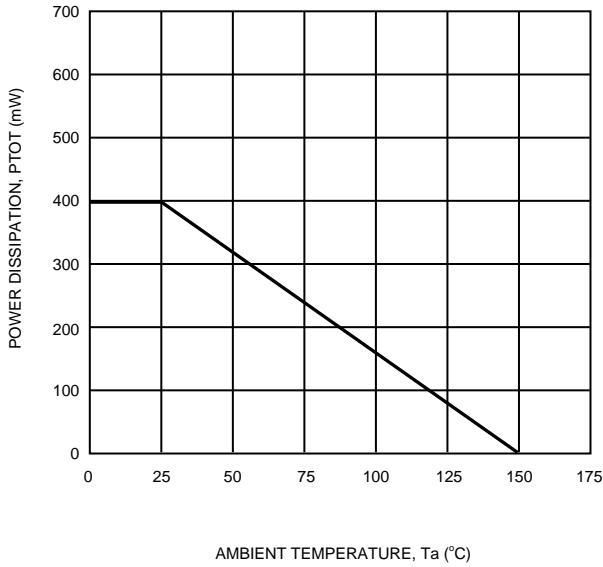


FIG.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

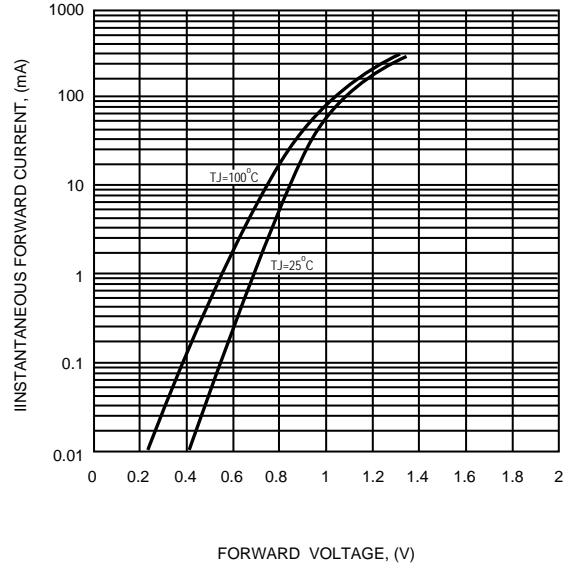


FIG.3 - LEAKAGE CURRENT VS. JUNCTION TEMPERATURE

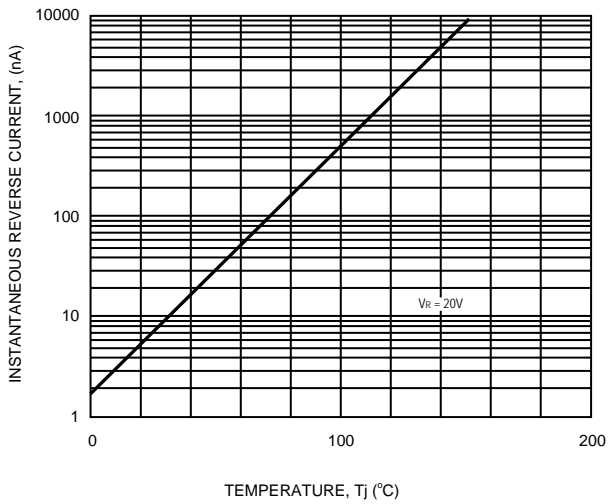


FIG.4 - REVERSE CAPACITANCE VS. REVERSE VOLTAGE

