

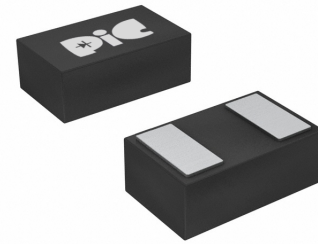
Features

- Low forward voltage
- High reliability
- Suffix "H" indicates Halogen-free parts, ex. SS1040LPCH

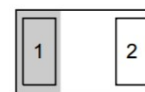
Application

- Industrial Robotics
- IoT (Internet-of-Things)
- Portable Electronics
- Mobile Computing
- Mobile Communications

DFN1608



TOP VIEW



Maximum Ratings (Ta=25°C)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	40	V
Average rectified forward current	$I_{F(AV)}$	1	A
Peak Forward Surge Current (8.3ms)	I_{FSM}	9	A
Operating Junction Temperature	T_J	125	°C
Storage Temperature Range	T_{STG}	-40 to +125	°C

Electrical Characteristics (Ta=25°C)

Parameter	Conditions	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage	$I_R = 1 \text{ mA}$	$V_{(BR)R}$	40	-	V
Forward Voltage	$I_F = 0.1 \text{ A}$	V_F	-	0.45	V
	$I_F = 1 \text{ A}$		-	0.60	
	$I_F = 3 \text{ A}$		-	0.90	
Reverse Current	$V_R = 40 \text{ V}$	I_R	-	1.00	mA
	$V_R = 4 \text{ V}$		-	0.05	
	$V_R = 6 \text{ V}$		-	0.075	
Total Capacitance	$V_R = 4 \text{ V}, f = 1 \text{ MHz}$	C_{tot}	-	120	pF

Typical Characteristics

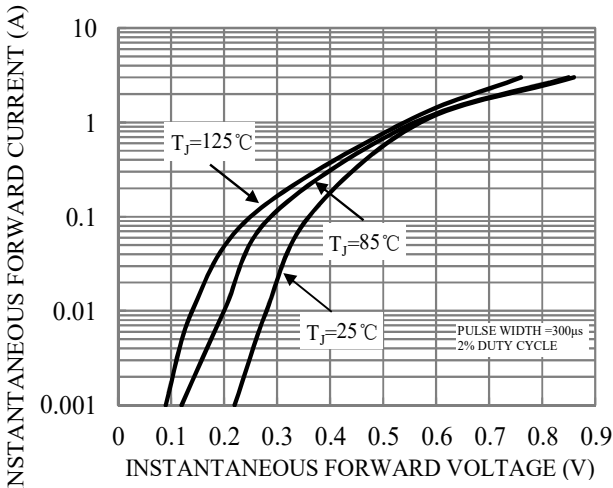


Fig. 1-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

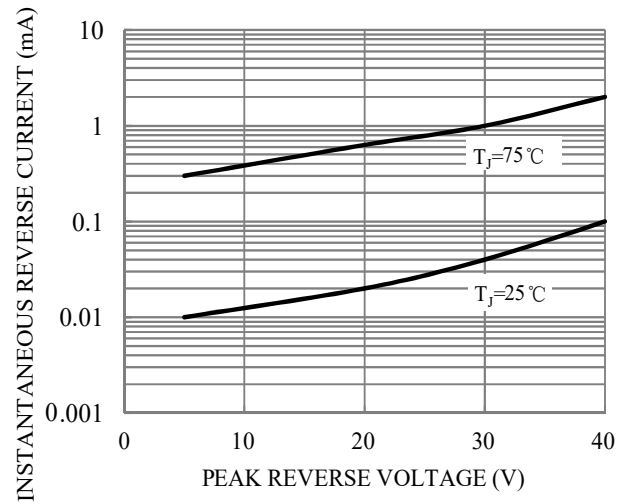


Fig. 2-TYPICAL REVERSE CHARACTERISTICS

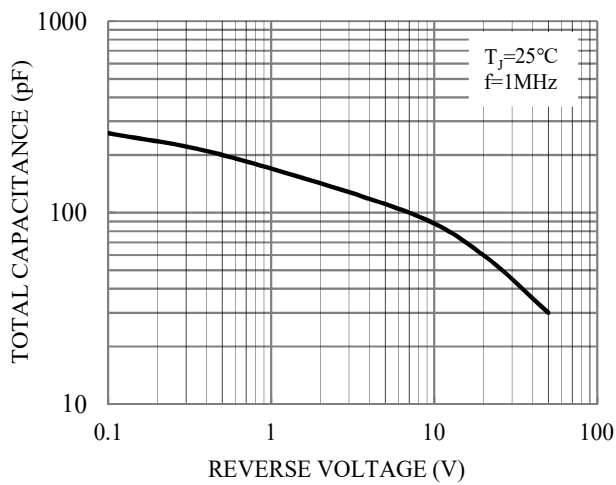
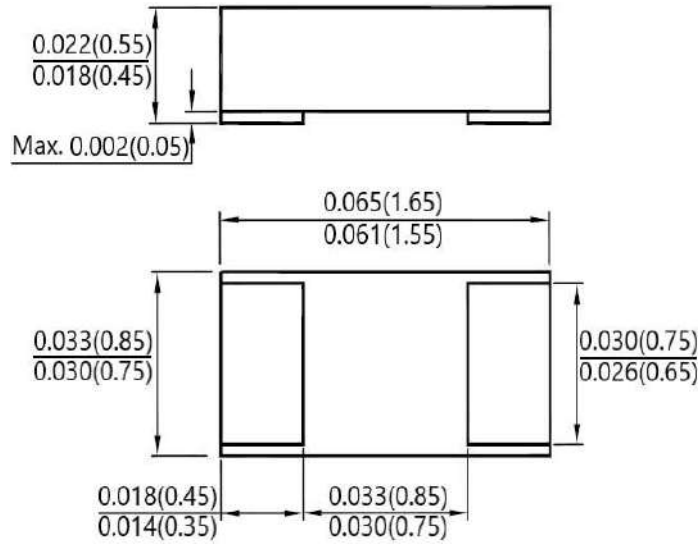


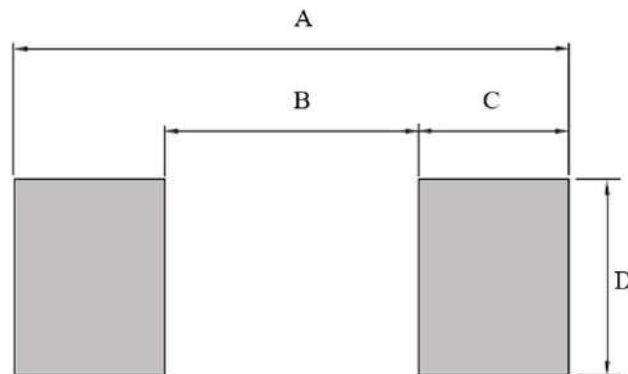
Fig. 3-TYPICAL TOTAL CAPACITANCE

DFN1608 Package Outline Dimensions



SUGGESTED SOLDER PAD LAYOUT

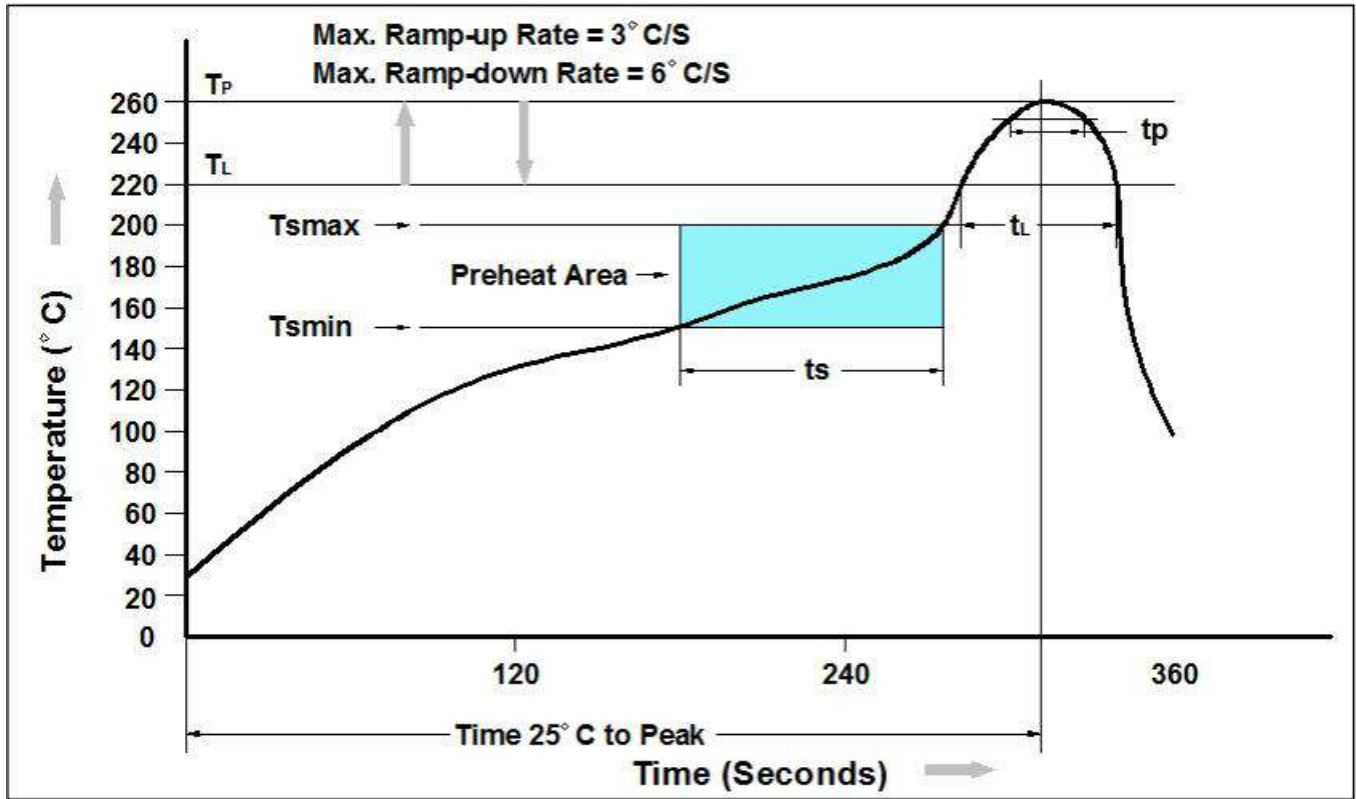
Dimensions in inch and (millimeter)



Unit : mm

PACKAGE	A	B	C	D
DFN1608	1.70	0.70	0.50	0.80

Recommend IR Reflow Soldering Thermal Profile



Profile Feature	Pb-Free Assembly Profile
Temperature Min. (T _{smin})	150°C
Temperature Max. (T _{smax})	200°C
Time (t _s) from (T _{smin} to T _{smax})	60-120 seconds
Average Ramp-up Rate (t _L to t _P)	3°C/second max.
Liquidous Temperature (T _L)	217°C
Time (t _L) Maintained Above (T _L)	60 – 150 seconds
Peak Temperature	260°C +0°C / -5°C
Time (t _P) within 5°C of actual Peak Temperature	30 seconds
Ramp-down Rate (T _P to T _L)	6°C/second max
Time 25°C to Peak Temperature	8 minutes max.

Ordering Information

Part Number	Description	Quantity
SS1040LPC	DFN1608 Reel	4000 pcs

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