

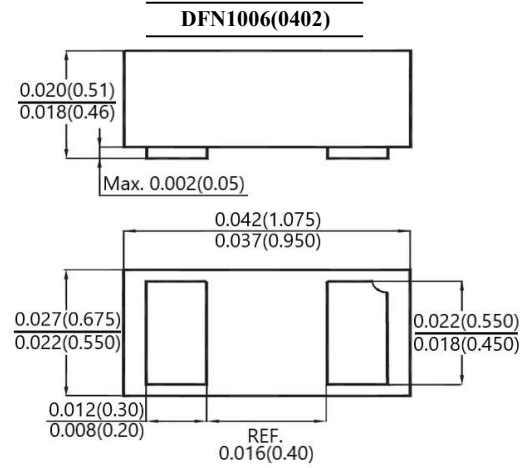
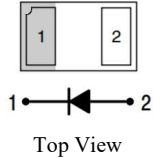


# SS140LPH

## SCHOTTKY DIODES

### FEATURES

- Low forward voltage
- Suffix "H" indicates Halogen-free parts, ex. SS140LPH



Dimensions in inch and (millimeter)

### Maximum Ratings@ $T_A = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Value	Unit
Reverse Voltage	$V_R$	40	V
RMS Voltage	$V_{RMS}$	28	V
Average Forward Current	$I_F$	1	A
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	7	A
Power Dissipation	$P_D$	500	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	250	$^\circ\text{C}/\text{W}$
Junction Temperature	$T_J$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150	$^\circ\text{C}$

### Electrical Characteristics@ $T_A = 25\text{ }^\circ\text{C}$

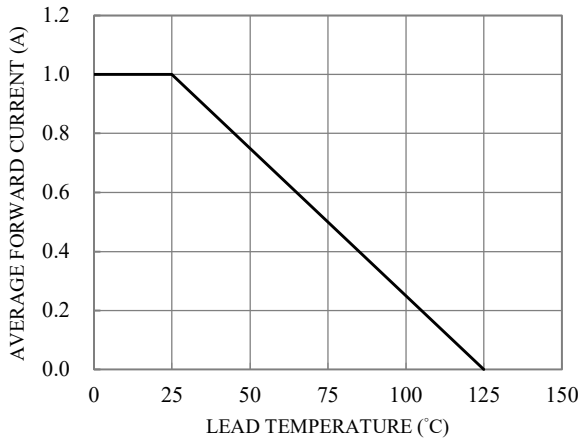
Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$I_R = 1\text{ mA}$	$V_{(BR)R}$	40	-	-	V
Forward Voltage	$I_F = 0.1\text{ A}$	$V_F$	-	-	0.38	V
	$I_F = 0.2\text{ A}$		-	-	0.40	
	$I_F = 0.5\text{ A}$		-	-	0.49	
	$I_F = 0.7\text{ A}$		-	-	0.55	
	$I_F = 1\text{ A}$		-	-	0.61	
Reverse Current	$V_R = 40\text{ V}$	$I_R$	-	-	40	$\mu\text{A}$
Total Capacitance	$V_R = 0\text{ V}$ , $f = 1\text{ MHz}$	$C_T$	-	19	-	pF



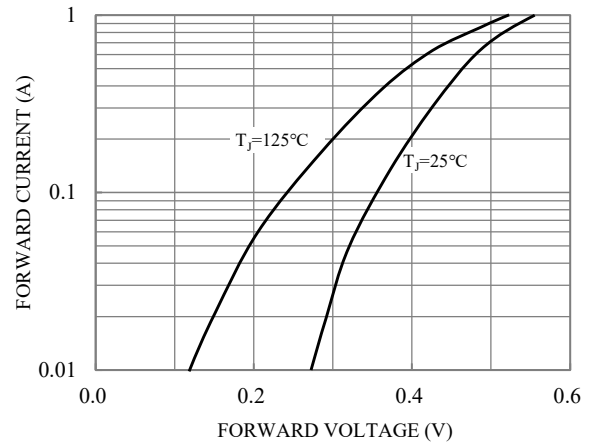
# SS140LPH

## SCHOTTKY DIODES

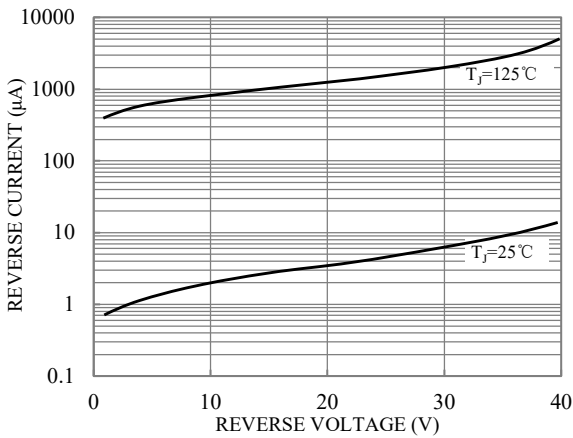
### RATINGS AND CHARACTERISTIC CURVES



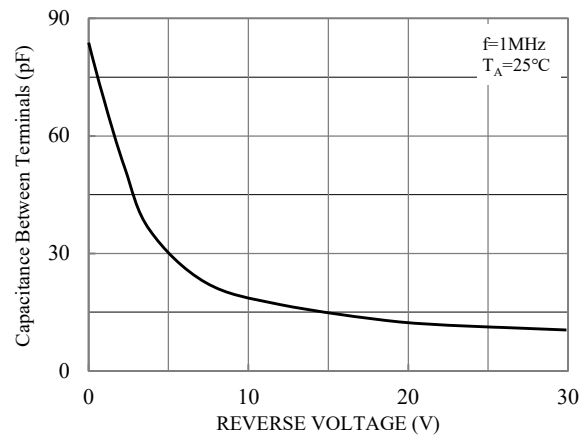
**Fig.1-FORWARD CURRENT DERATING CURVE**



**Fig.2-TYPICAL FORWARD CHARACTERISTICS**



**Fig.3-TYPICAL REVERSE CHARACTERISTICS**



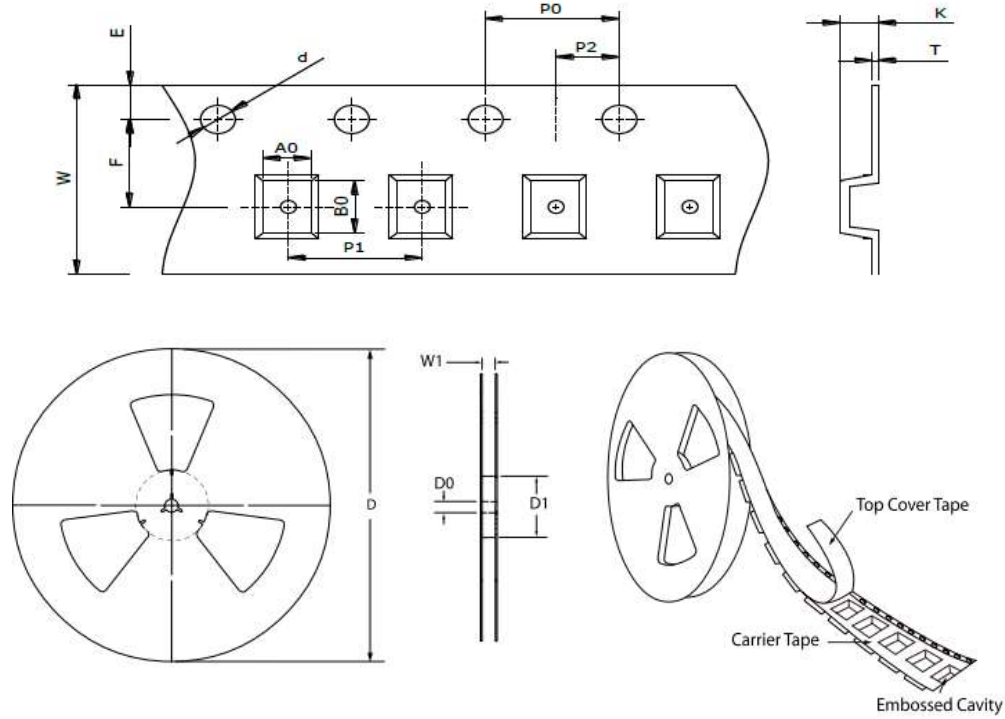
**Fig.4-CAPACITANCE**



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## SCHOTTKY DIODES

### TAPE & REEL SPECIFICATION



Item	Symbol	DFN1006(0402)
Carrier width	A <sub>0</sub>	0.70 ± 0.10
Carrier length	B <sub>0</sub>	1.10 ± 0.10
Carrier depth	K	0.60 ± 0.10
Sprocket hole	d	1.50 ± 0.10
Reel outside diameter	D	178.00 ± 2.00
Feed hole width	D <sub>0</sub>	13.00 ± 0.50
Reel inner diameter	D <sub>1</sub>	MIN. 54.00
Sprocket hole position	E	1.75 ± 0.10
Punch hole position	F	3.50 ± 0.10
Sprocket hole pitch	P <sub>0</sub>	4.00 ± 0.10
Punch hole pitch	P <sub>1</sub>	2.00 ± 0.10
Embossment center	P <sub>2</sub>	2.00 ± 0.10
Overall tape thickness	T	MAX. 0.60
Tape width	W	8.00 ± 0.30
Reel width	W <sub>1</sub>	8.40 ± 1.50

### ORDER INFORMATION

Package	Reel Size	Quantity
DFN1006(0402)	7"	10,000

### MARKING CODE

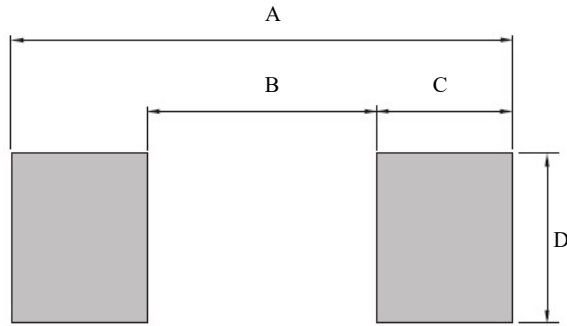
Part Number	Marking Code
SS140LPH	DA



# SS140LPH

## SCHOTTKY DIODES

### SUGGESTED SOLDER PAD LAYOUT



Unit:mm

Package	A	B	C	D
DFN1006(0402)	1.10	0.30	0.40	0.60