

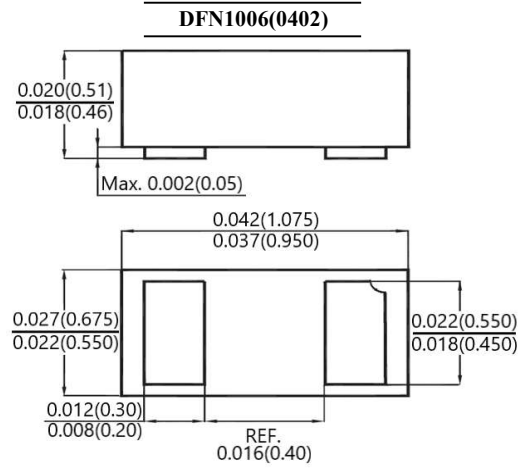
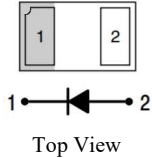


SS0540LPH

SCHOTTKY DIODES

FEATURES

- Low forward voltage
- Suffix "H" indicates Halogen-free parts, ex. SS0540LPH



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

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Reverse Voltage	V_R	40	V
Average Rectified Output Current	I_O	0.5	A
Peak Forward Surge Current ($t=8.3\text{ms}$)	I_{FSM}	5	A
Thermal Resistance from Junction to Ambient (Note 1)	$R_{\theta JA}$	500	$^\circ\text{C/W}$
Operating Temperature Range	T_{OPR}	-40 to +85	$^\circ\text{C}$
Junction Temperature	T_J	125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^\circ\text{C}$

Note :

1. Device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.

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

Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	$I_R=200\mu\text{A}$	$V_{(BR)R}$	40	-	-	V
Forward Voltage	$I_F=0.5\text{A}$	V_F	-	-	0.55	V
Reverse Current	$V_R=40\text{V}$	I_R	-	-	200	μA
	$V_R=40\text{V}, T_J=125\text{ }^\circ\text{C}$		-	-	20	mA
Junction Capacitance	$V_R=4\text{V}, f=1\text{MHz}$	C_J	-	-	50	pF



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RATINGS AND CHARACTERISTIC CURVES

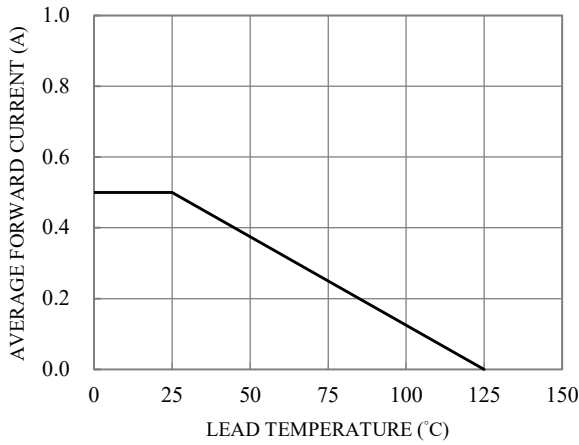


Fig.1-FORWARD CURRENT DERATING CURVE

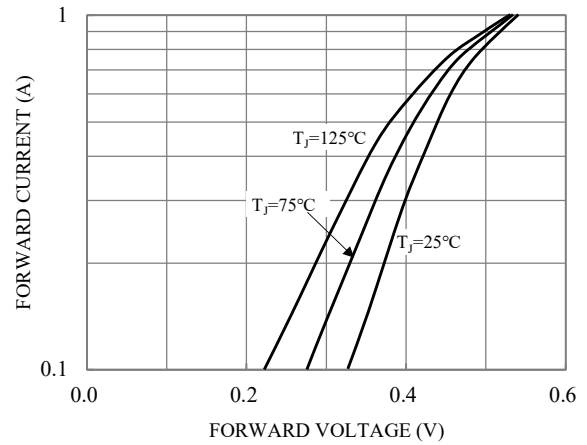


Fig.2-TYPICAL FORWARD CHARACTERISTICS

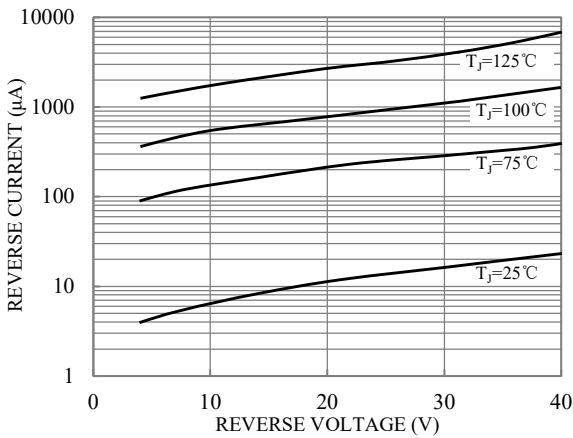


Fig.3-TYPICAL REVERSE CHARACTERISTICS

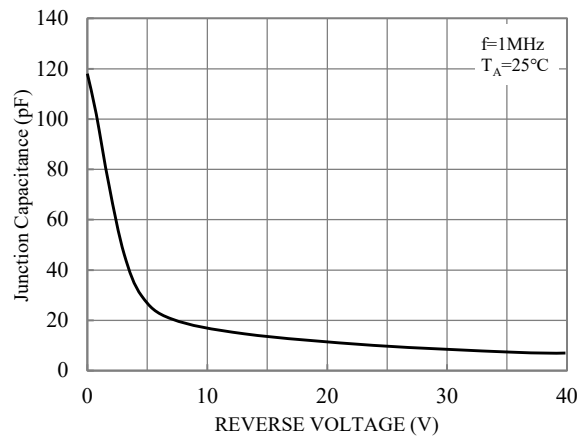


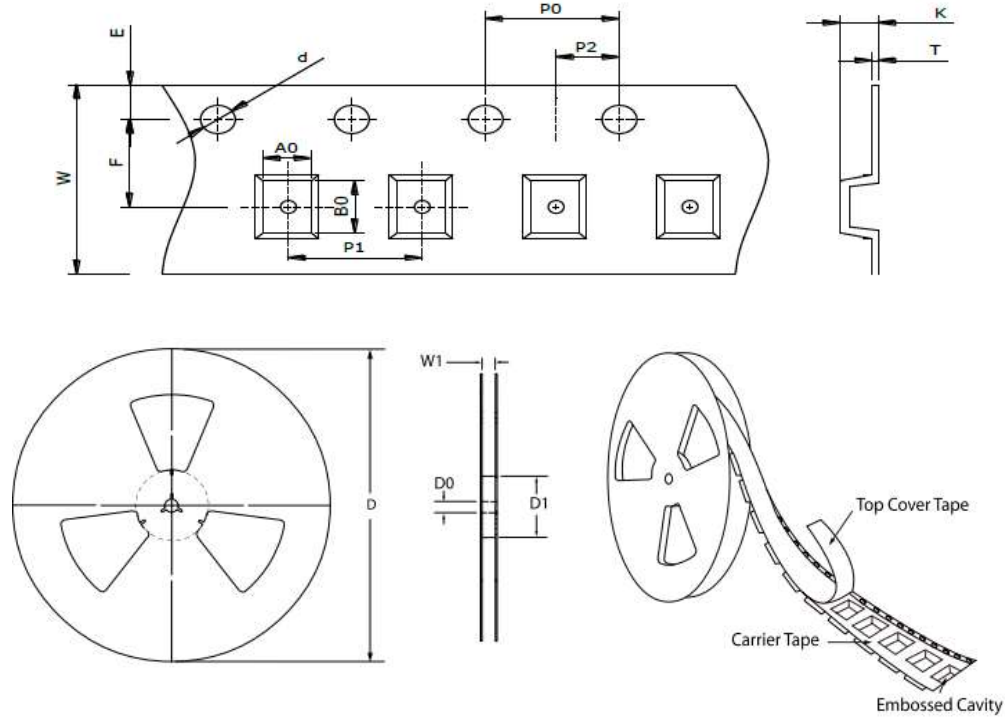
Fig.4-CAPACITANCE



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TAPE & REEL SPECIFICATION



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

ORDER INFORMATION

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

MARKING CODE

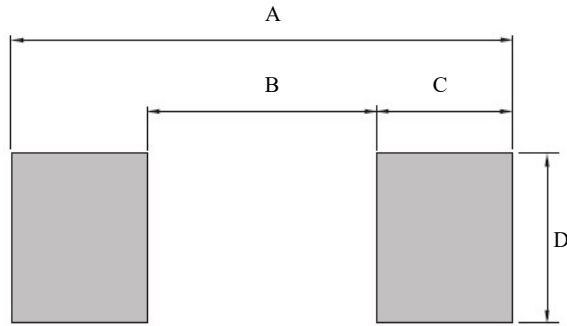
Part Number	Marking Code
SS0540LPH	5S



SS0540LPH

SCHOTTKY DIODES

SUGGESTED SOLDER PAD LAYOUT



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

Unit:mm