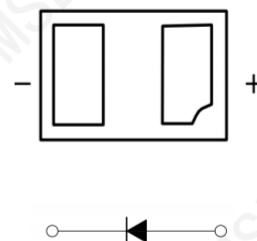
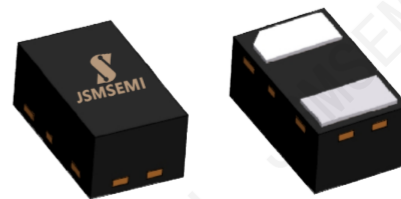


FEATURES

- Low Forward Voltage Drop
- Guard Ring Construction for Transient Protection
- Low Reverse Recovery Time
- Low Reverse Capacitance



DFN1006-2

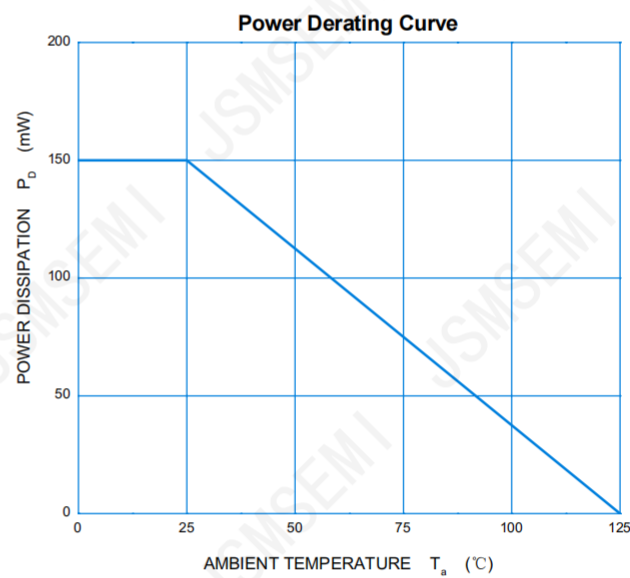
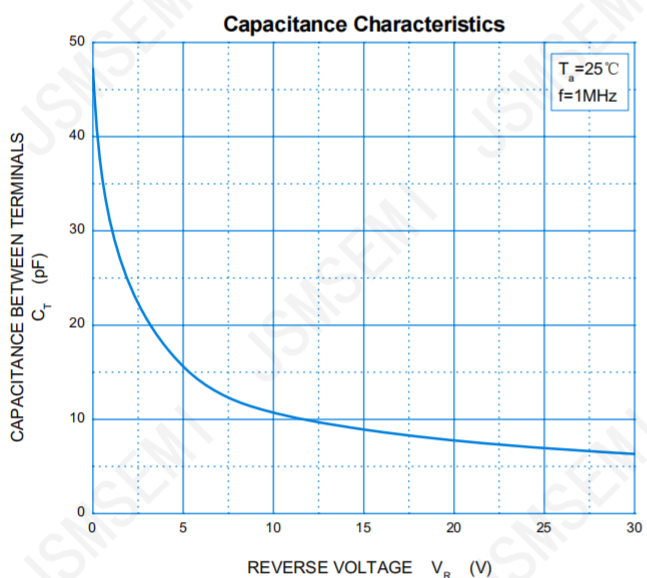
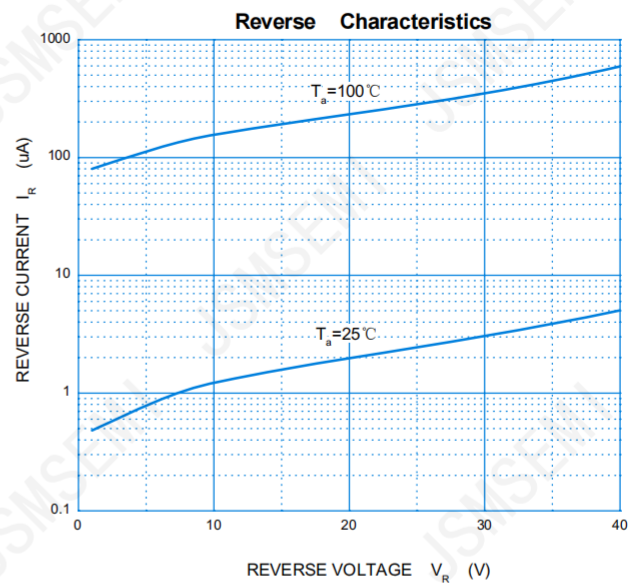
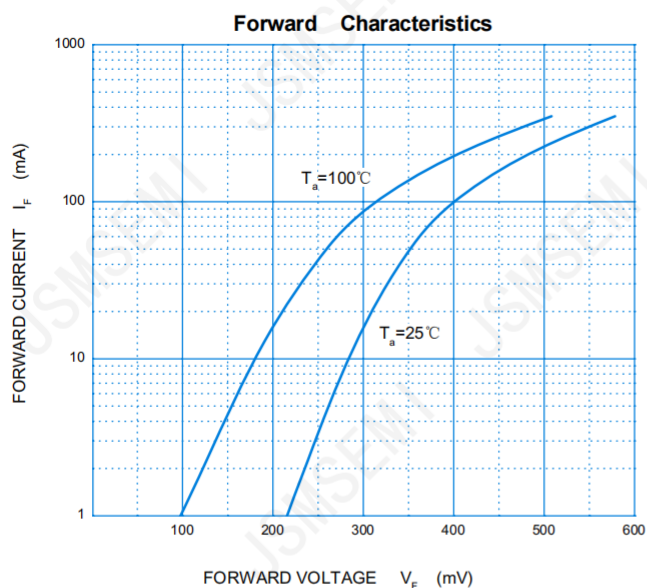
MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RRM}	Peak Repetitive Reverse Voltage	30	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Blocking Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	28	V
I_{FM}	Forward Continuous Current	200	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current@ $t=8.3\text{ms}$	500	mA
P_D	Power Dissipation	150	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	667	$^{\circ}\text{C/W}$
T_j	Junction Temperature	125	$^{\circ}\text{C}$
T_{stg}	Storage Temperature	-55~+150	$^{\circ}\text{C}$

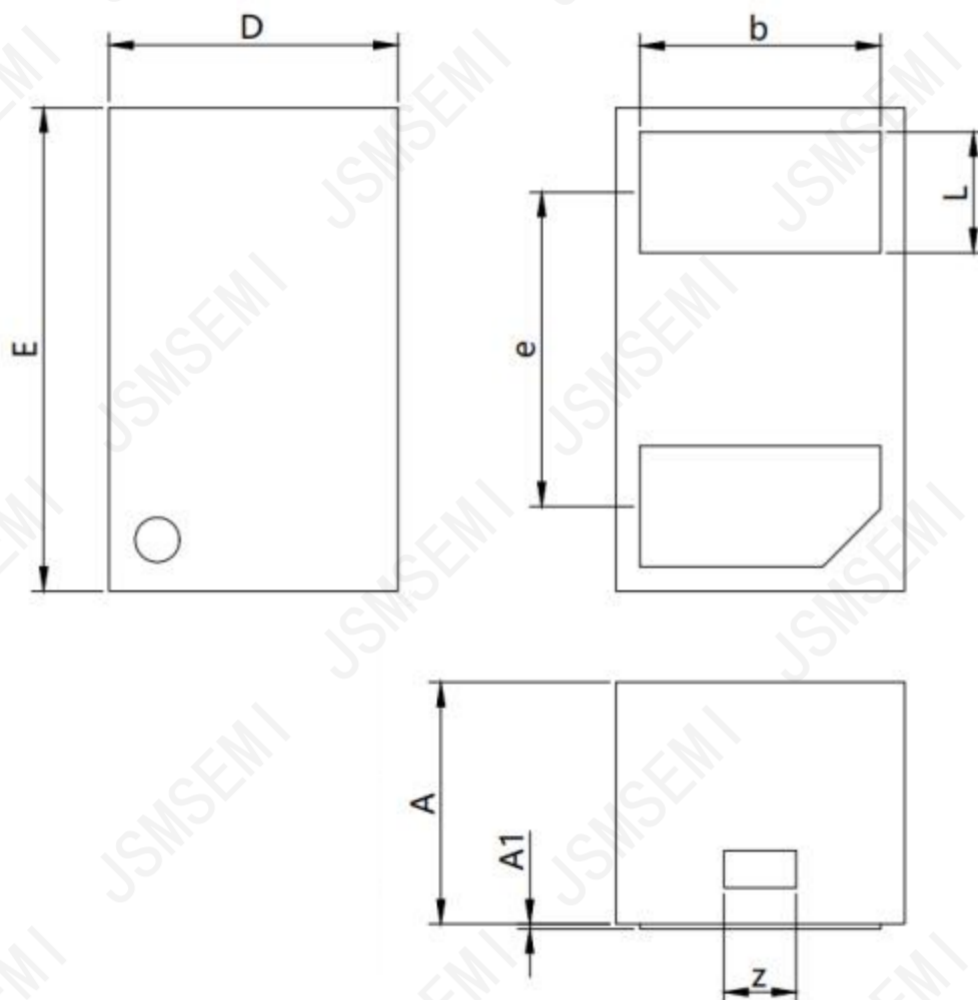
ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=100\mu\text{A}$	30			V
Reverse current	I_R					μA
		$V_R=10\text{V}$			30	
Forward voltage	V_F	$I_F=10\text{mA}$			0.35	V
		$I_F=20\text{mA}$			0.38	
		$I_F=20\text{mA}$			0.4	
		$I_F=200\text{mA}$			0.6	
Total capacitance	C_{tot}	$V_R=0\text{V}, f=1\text{MHz}$		50		pF
Reverse recovery time	t_{rr}	$I_F=I_R=200\text{mA}, I_{rr}=0.1\times I_R, R_L=100\Omega$		10		ns

Typical Characteristics



DFN1006-2 Package Outline Dimensions



DFN1.0*0.6*0.5-2L REV.C POD			
	min(mm)	typ(mm)	max(mm)
D	0.55	0.60	0.65
E	0.95	1.00	1.05
L	0.20	0.25	0.30
b	0.45	0.50	0.55
e	0.65bsc		
A	0.45	0.50	0.55
A1	-	0	0.05
z	0.15bsc		

Revision History

Rev.	Change	Date
V1.0	Initial version	2/23/2024

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