

Electrical Characteristics (At Ta=25°C, unless otherwise noted)

Parameter	Conditions	Symbol	Min.	Max.	Unit
Reverse breakdown voltage	CDBW120-G	$I_R=1\text{mA}$	20		V
	CDBW130-G				
	CDBW140-G				
Reverse voltage leakage current	CDBW120-G	$V_R=20\text{V}$		1	mA
	CDBW130-G	$V_R=30\text{V}$			
	CDBW140-G	$V_R=40\text{V}$			
Forward voltage	CDBW120-G	$I_F=1\text{A}$		0.45	V
	CDBW130-G			0.55	
	CDBW140-G	0.60			
	CDBW120-G	$I_F=3\text{A}$		0.75	
CDBW130-G	0.875				
CDBW140-G	0.90				
Diode capacitance		$V_R=4\text{V}, f=1\text{MHz}$		120	pF

RATING AND CHARACTERISTIC CURVES (CDBW120-G Thru. CDBW140-G)

Fig.1- Power Derating Curve

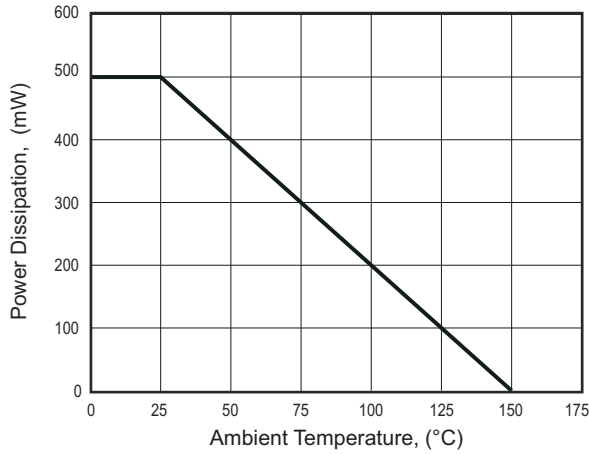


Fig.2- Maximum Non-Repetitive Peak Forward Surge Current

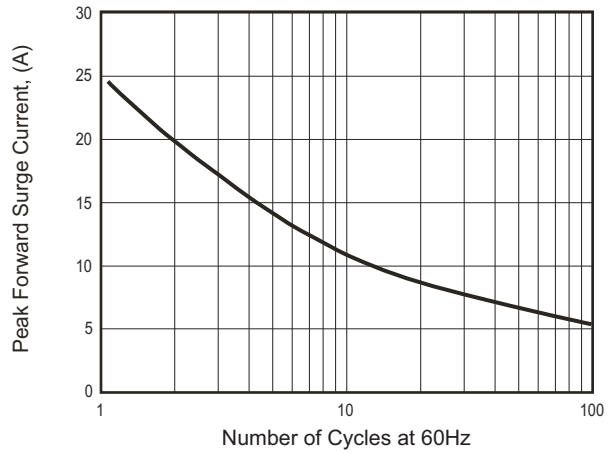


Fig.3- Typical Instantaneous Forward Characteristics

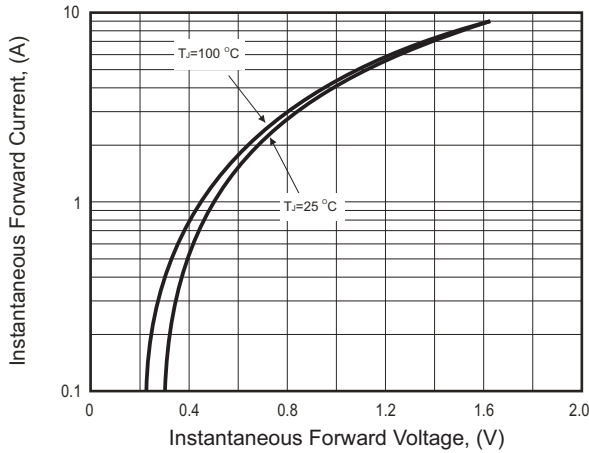


Fig.4- Typical Reverse Characteristics

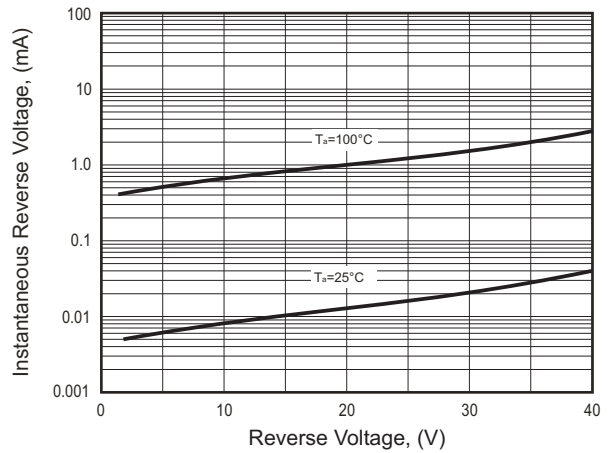


Fig.5- Typical Junction Capacitance

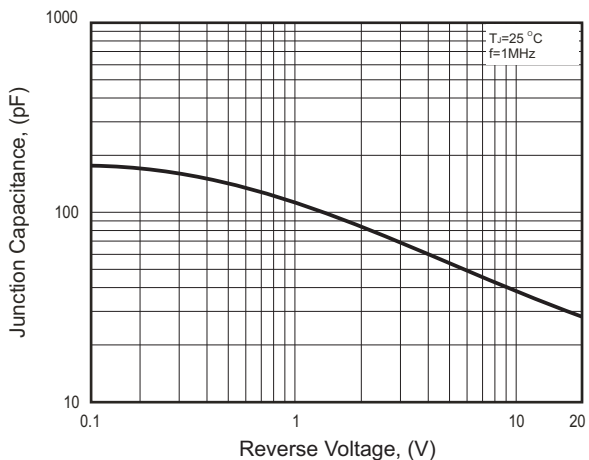
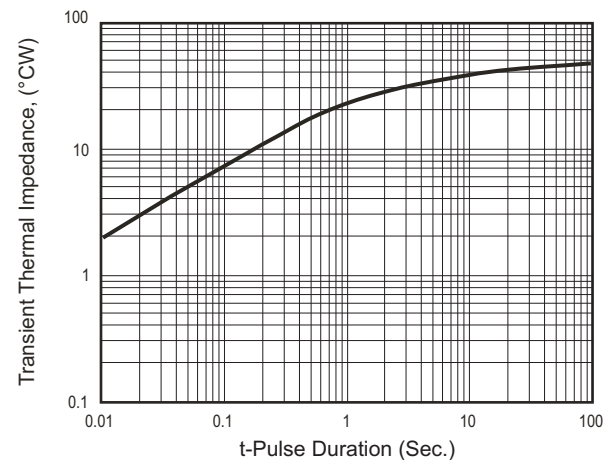
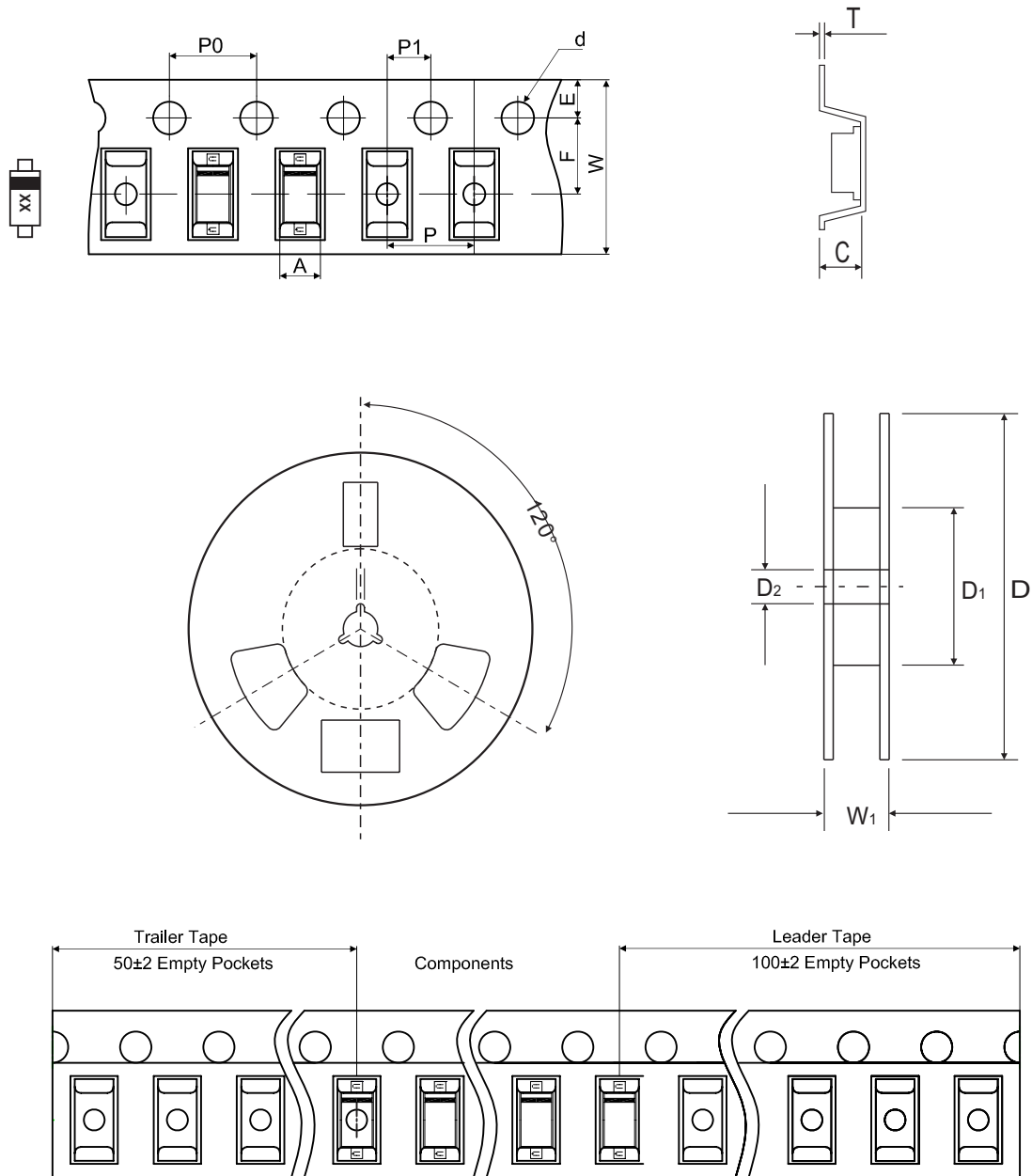


Fig.6- Typical Transient Thermal Impedance



Reel Taping Specification



SOD-123	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	1.85 ± 0.05	3.94 ± 0.05	1.57 ± 0.05	1.55 ± 0.10	178 ± 2.00	54.40 ± 1.00	13.00 ± 1.00
	(inch)	0.073 ± 0.002	0.155 ± 0.002	0.062 ± 0.002	0.061 ± 0.004	7.008 ± 0.079	2.142 ± 0.039	0.512 ± 0.039

SOD-123	SYMBOL	E	F	P	P ₀	P ₁	W	W ₁
	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	8.00 + 0.30 / - 0.10	12.30 ± 1.0
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.315 + 0.012 / - 0.004	0.484 ± 0.039

Company reserves the right to improve product design , functions and reliability without notice.

Marking Code

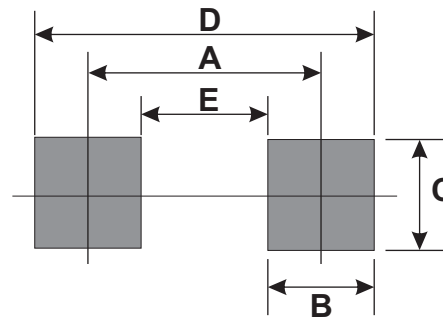
Part Number	Marking Code
CDBW120-G	SJ
CDBW130-G	SK
CDBW140-G	SL



xx = Product type marking code

Suggested PAD Layout

SIZE	SOD-123	
	(mm)	(inch)
A	3.24	0.128
B	0.80	0.031
C	1.00	0.039
D	4.04	0.159
E	2.44	0.096



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
SOD-123	3,000	7

Mouser Electronics

Authorized Distributor

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