

/ Descriptions

SOT-523 P MOS

P-CHANNEL MOSFET in a SOT-523 Plastic Package.

/ Features

 $V_{DS}(V) = -20\text{ V}$ $I_D = -0.7\text{ A}$ $R_{DS(ON)}@-4.5\text{ V} \leq 520\text{ m}\Omega$ (Typ. 400m Ω) $R_{DS(ON)}@-2.5\text{ V} \leq 780\text{ m}\Omega$ (Typ. 570m Ω) $R_{DS(ON)}@-1.8\text{ V} \leq 1100\text{ m}\Omega$ (Typ. 810m Ω)

2KV ESD protected up to 2KV.

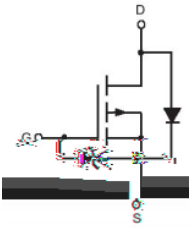
HF Product.

/ Applications

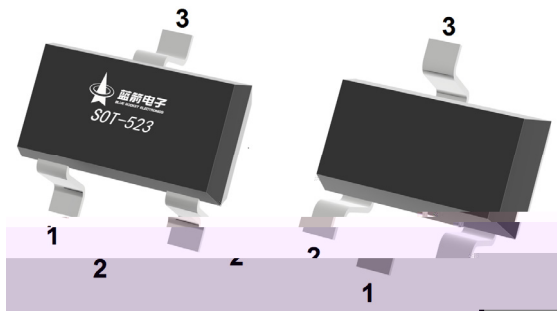
DC/DC

Load Switching, Low Current Inverters, Low Current DC/DC Converters.

/ Equivalent Circuit



/ Pinning



PIN1 G

PIN 2 S

PIN 3 D

/ Marking

See Marking Instructions.

/ Electrical Characteristic Curve

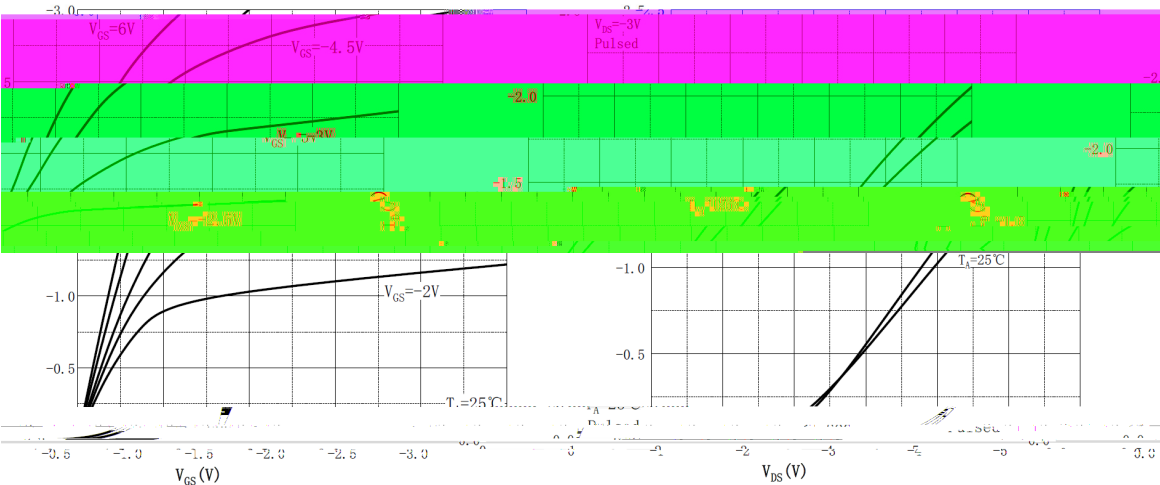


Figure 1. Output Characteristics

Figure 2. Transfer Characteristics

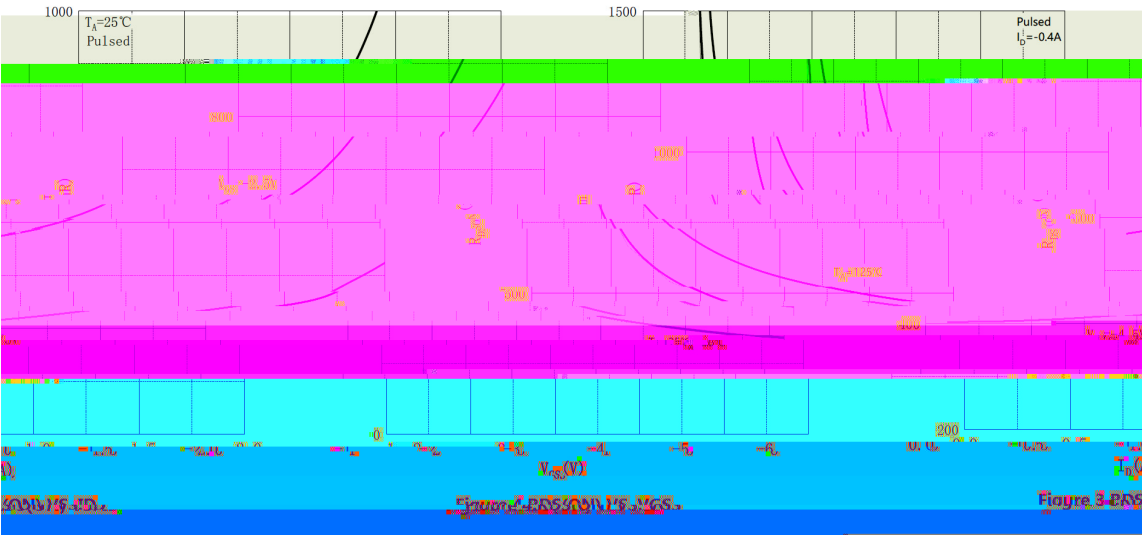
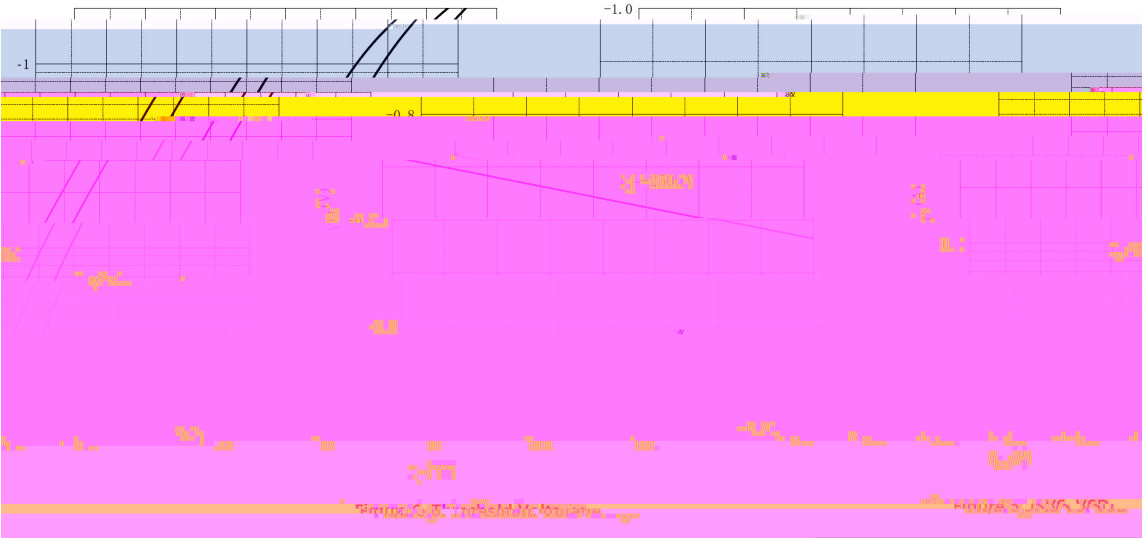
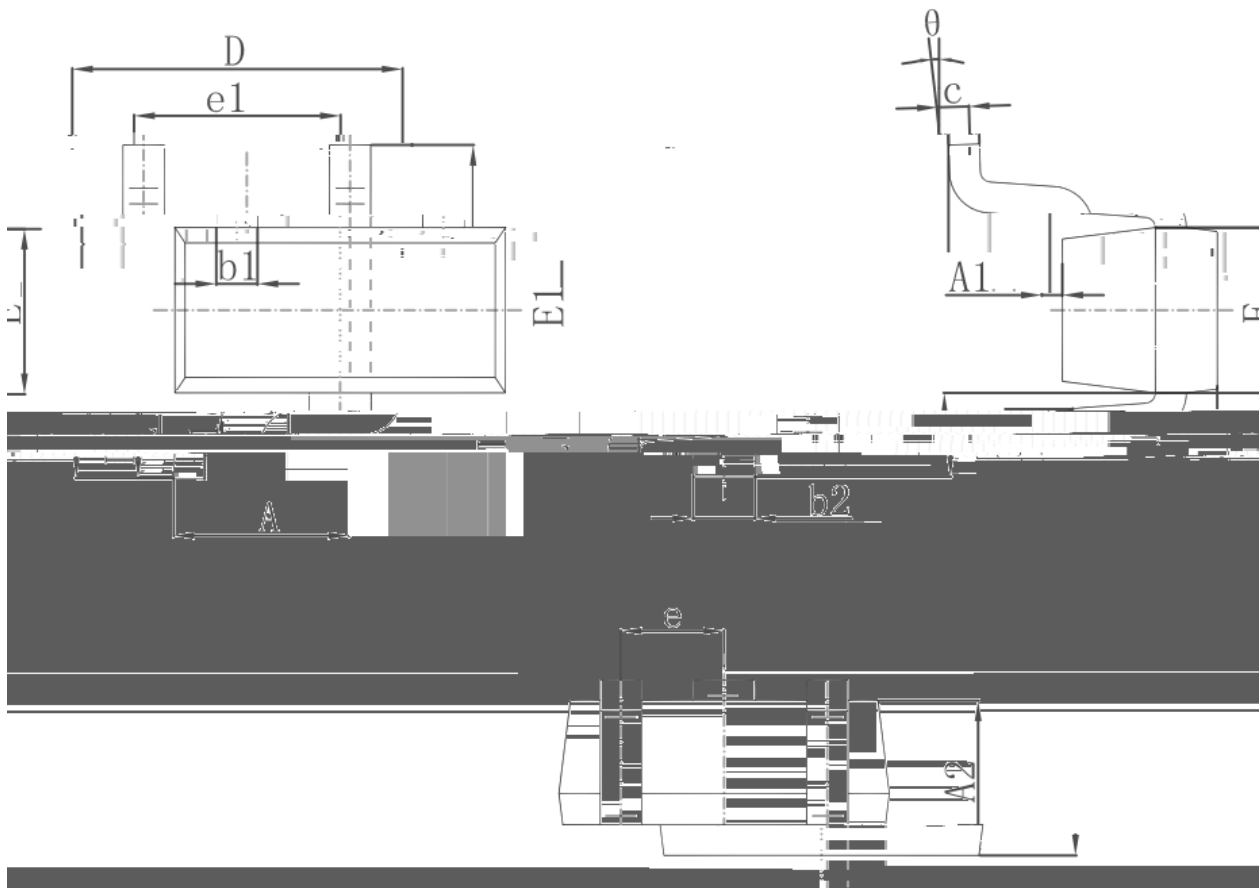


Figure 3. Power Characteristics

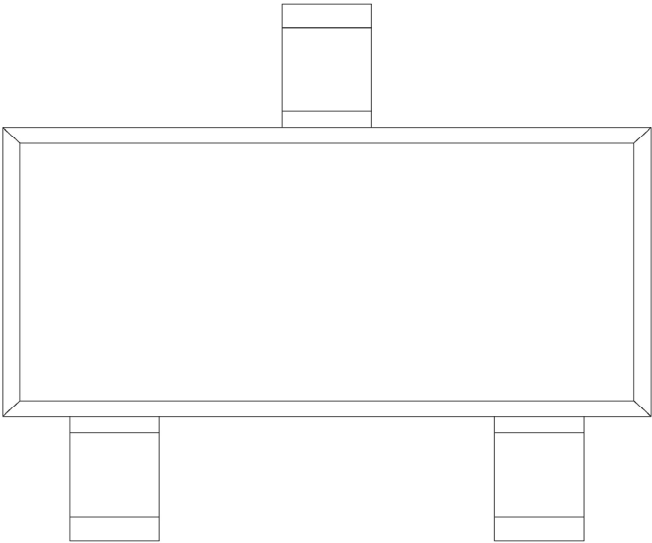


/ Package Dimensions



Dimensions In Inches			Dimensions In Millimeters		
Min.	Max.		Symbol	Min.	Max.
0.028	0.035		A	0.700	0.900
0.000	0.004		A1	0.000	0.100
0.028	0.031		A2	0.700	0.800
0.000	0.003	0.000	B	0.000	0.075
0.000	0.003	0.000	B1	0.000	0.075
0.000	0.003	0.000	B2	0.000	0.075
0.000	0.003	0.000	B3	0.000	0.075
0.000	0.003	0.000	B4	0.000	0.075
0.000	0.003	0.000	B5	0.000	0.075
0.000	0.003	0.000	B6	0.000	0.075
0.000	0.003	0.000	B7	0.000	0.075
0.000	0.003	0.000	B8	0.000	0.075
0.000	0.003	0.000	B9	0.000	0.075
0.000	0.003	0.000	B10	0.000	0.075
0.000	0.003	0.000	B11	0.000	0.075
0.000	0.003	0.000	B12	0.000	0.075
0.000	0.003	0.000	B13	0.000	0.075
0.000	0.003	0.000	B14	0.000	0.075
0.000	0.003	0.000	B15	0.000	0.075
0.000	0.003	0.000	B16	0.000	0.075
0.000	0.003	0.000	B17	0.000	0.075
0.000	0.003	0.000	B18	0.000	0.075
0.000	0.003	0.000	B19	0.000	0.075
0.000	0.003	0.000	B20	0.000	0.075
0.000	0.003	0.000	B21	0.000	0.075
0.000	0.003	0.000	B22	0.000	0.075
0.000	0.003	0.000	B23	0.000	0.075
0.000	0.003	0.000	B24	0.000	0.075
0.000	0.003	0.000	B25	0.000	0.075
0.000	0.003	0.000	B26	0.000	0.075
0.000	0.003	0.000	B27	0.000	0.075
0.000	0.003	0.000	B28	0.000	0.075
0.000	0.003	0.000	B29	0.000	0.075
0.000	0.003	0.000	B30	0.000	0.075
0.000	0.003	0.000	B31	0.000	0.075
0.000	0.003	0.000	B32	0.000	0.075
0.000	0.003	0.000	B33	0.000	0.075
0.000	0.003	0.000	B34	0.000	0.075
0.000	0.003	0.000	B35	0.000	0.075
0.000	0.003	0.000	B36	0.000	0.075
0.000	0.003	0.000	B37	0.000	0.075
0.000	0.003	0.000	B38	0.000	0.075
0.000	0.003	0.000	B39	0.000	0.075
0.000	0.003	0.000	B40	0.000	0.075
0.000	0.003	0.000	B41	0.000	0.075
0.000	0.003	0.000	B42	0.000	0.075
0.000	0.003	0.000	B43	0.000	0.075
0.000	0.003	0.000	B44	0.000	0.075
0.000	0.003	0.000	B45	0.000	0.075
0.000	0.003	0.000	B46	0.000	0.075
0.000	0.003	0.000	B47	0.000	0.075
0.000	0.003	0.000	B48	0.000	0.075
0.000	0.003	0.000	B49	0.000	0.075
0.000	0.003	0.000	B50	0.000	0.075
0.000	0.003	0.000	B51	0.000	0.075
0.000	0.003	0.000	B52	0.000	0.075
0.000	0.003	0.000	B53	0.000	0.075
0.000	0.003	0.000	B54	0.000	0.075

/ Marking Instructions



39K

() / Temperature Profile for IR Reflow Soldering(Pb-Free)

Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 , Duration:5±0.5sec.
- 3

2 10

/sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5

10±1 sec.

Temp.:260±5

Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box