

Rev.A Oct.-2025

SOT-523 P MOS

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

$V_{DS}(V) = -20\text{ V}$ $I_D = -0.7\text{ A}$

$R_{DS(ON)} @ -4.5\text{ V} \leq 520\text{ m}\Omega$ (Typ. 400m Ω)

$R_{DS(ON)} @ -2.5\text{ V} \leq 780\text{ m}\Omega$ (Typ. 570m Ω)

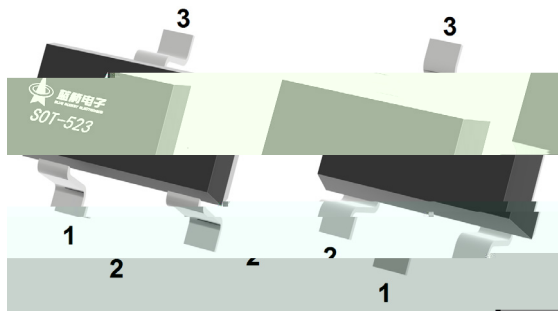
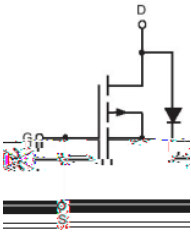
$R_{DS(ON)} @ -1.8\text{ V} \leq 1100\text{ m}\Omega$ (Typ. 810m Ω)

2KV ESD protected up to 2KV.

HF Product.

DC/DC

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



PIN1 G

PIN 2 S

PIN 3 D

See Marking Instructions.

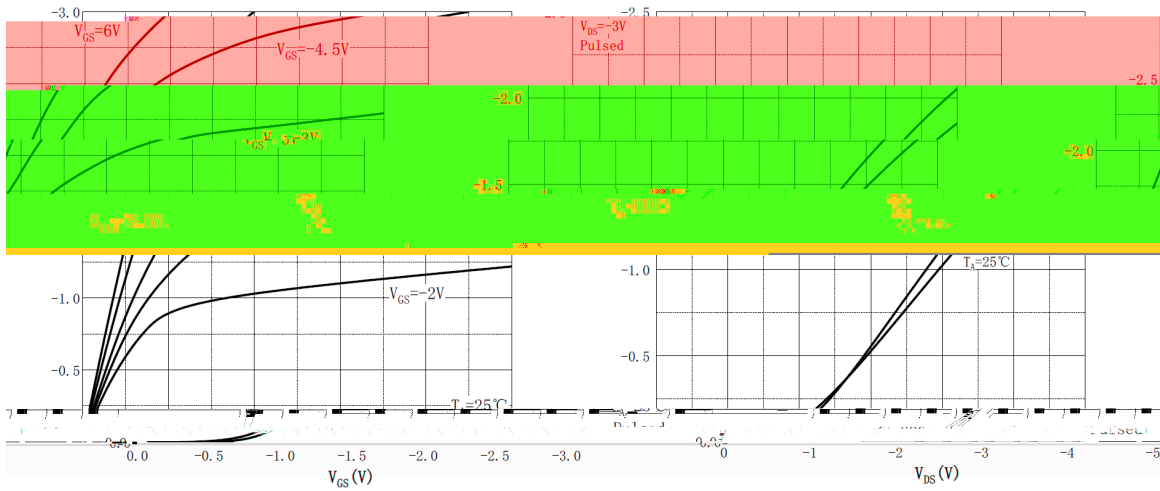


Figure 1. Output Characteristics

Figure 2. Transfer Characteristics

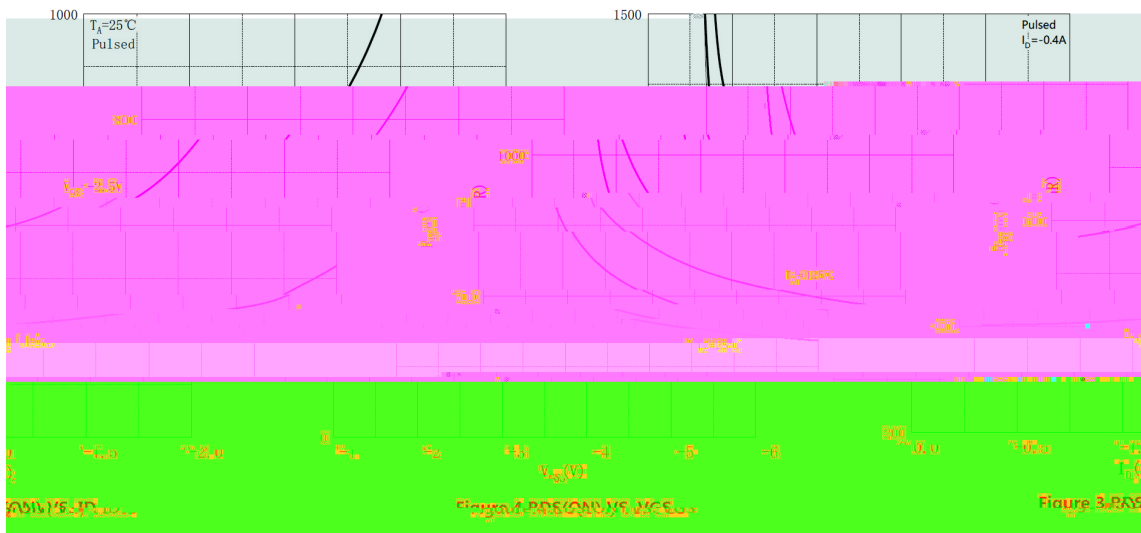


Figure 3. $R_{DS(on)}$

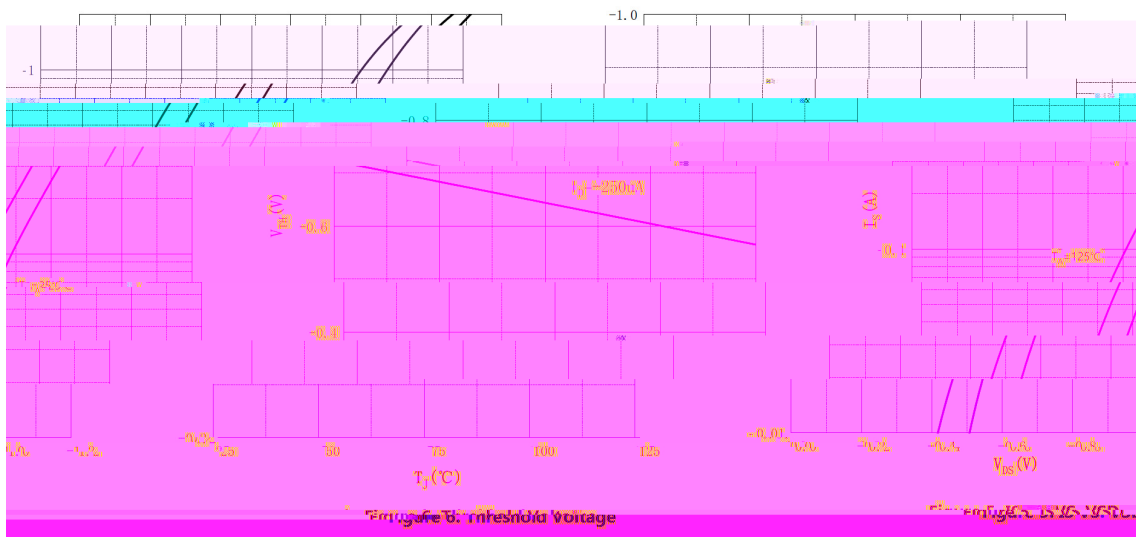
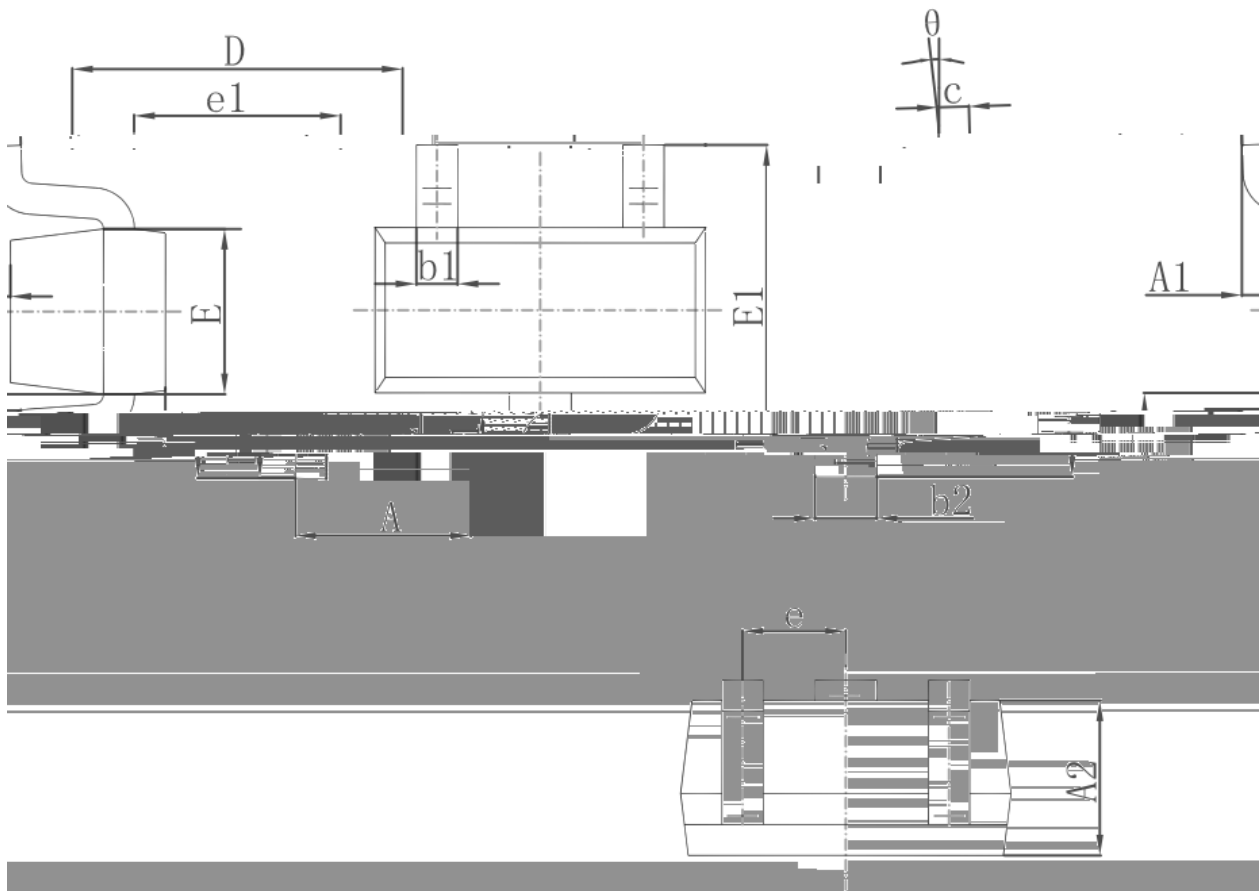
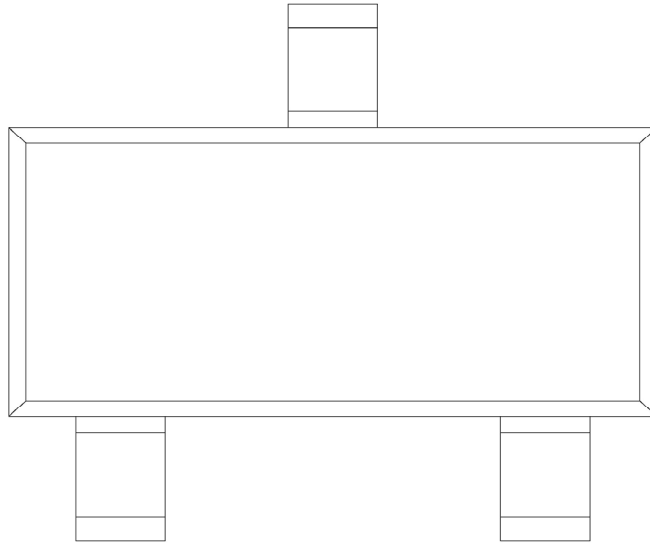


Figure 4. Threshold Voltage



Dimensions In Inches		Symbol	Dimensions In Millimeters	
Min.	Max.		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
0.010	0.014	b1	0.250	0.350
0.010	0.014	b2	0.250	0.350
0.010	0.014	c	0.250	0.350
0.010	0.014	D	1.500	1.700
0.010	0.014	E	0.700	0.900
0.010	0.014	F	1.450	1.750
0.010	0.014	e	0.500 TYP.	0.500 TYP.
0.010	0.014	e1	0.900	1.100
0.010	0.014	L	0.400 REF.	0.400 REF.
0.010	0.014	L1	0.260	0.460
0.010	0.014	θ	0°	8°



39K

Temperature Profile for IR Reflow Soldering(Pb-Free)

- Note:

11501806090sec;

2245±55±0.5sec;

3210/sec.

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

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

3. Cooling Speed: 2~10/sec.

260±510±1 sec.Temp.:260±5Time:10±1 sec

/ 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