BRCS3139WB

Rev.A Oct.-2025

DATA SHEET

/ Descriptions

SOT-523 P MOS

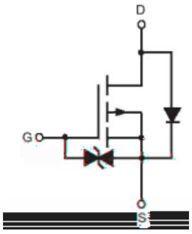
P-CHANNEL MOSFET in a SOT-523 Plastic Package.

/ Features

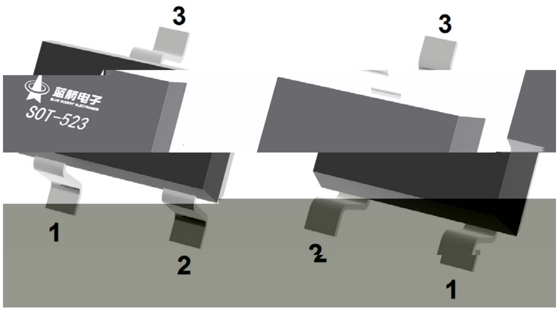
/ Applications

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

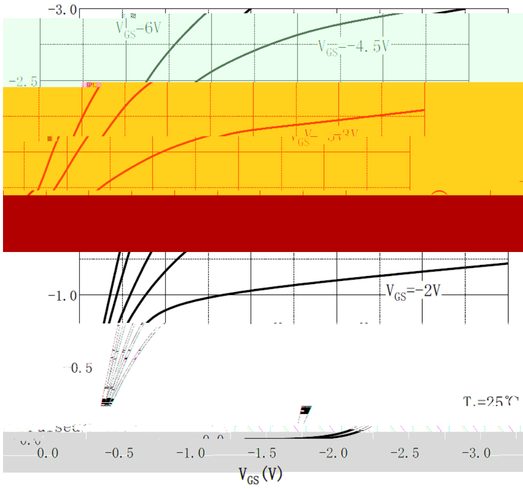


Figure 2. Transfer Characteristics

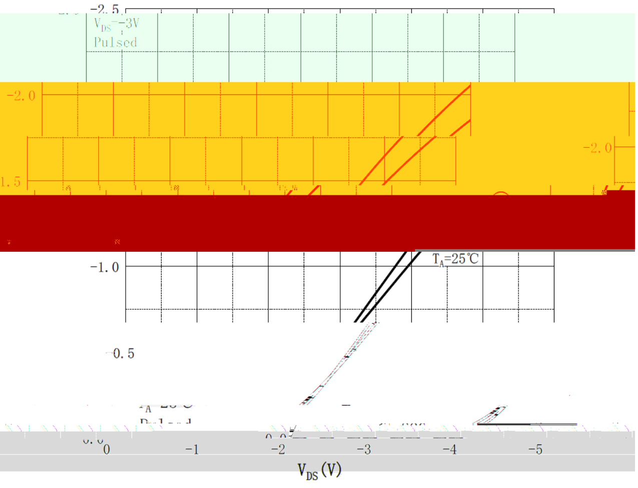
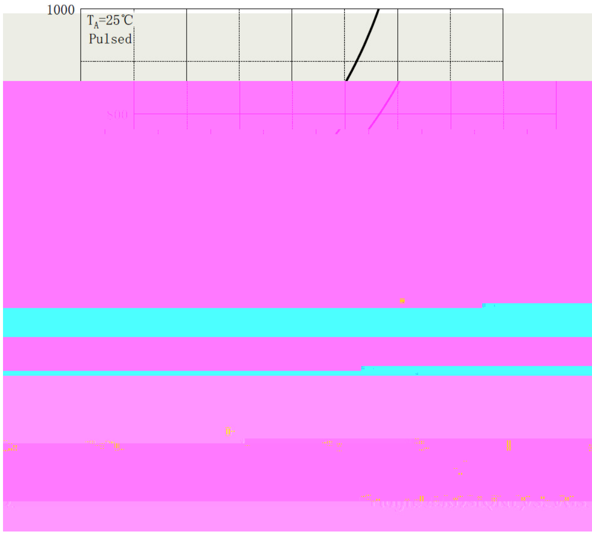
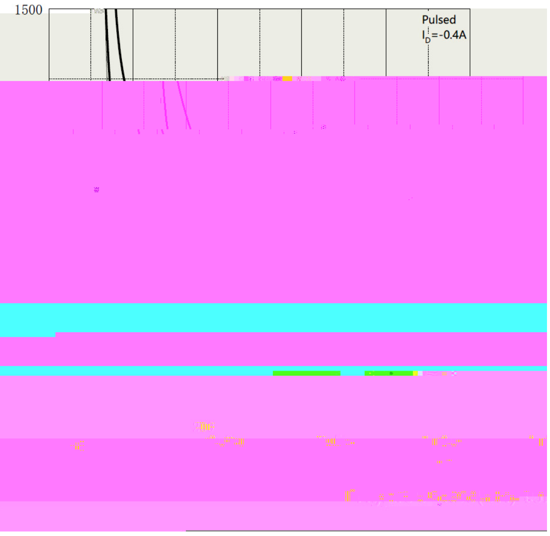


Figure 1. Output Characteristics





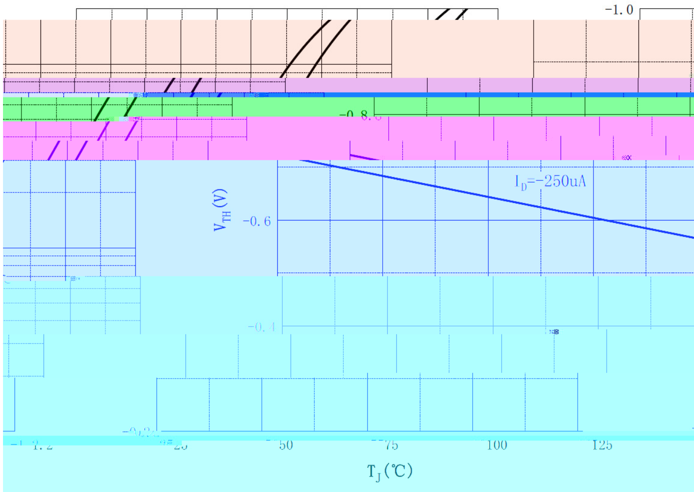


Figure 6. Threshold Voltage

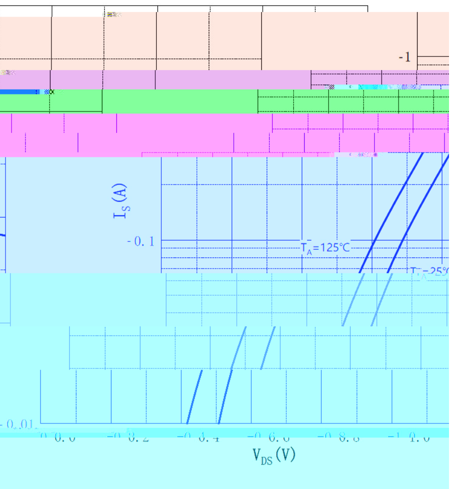
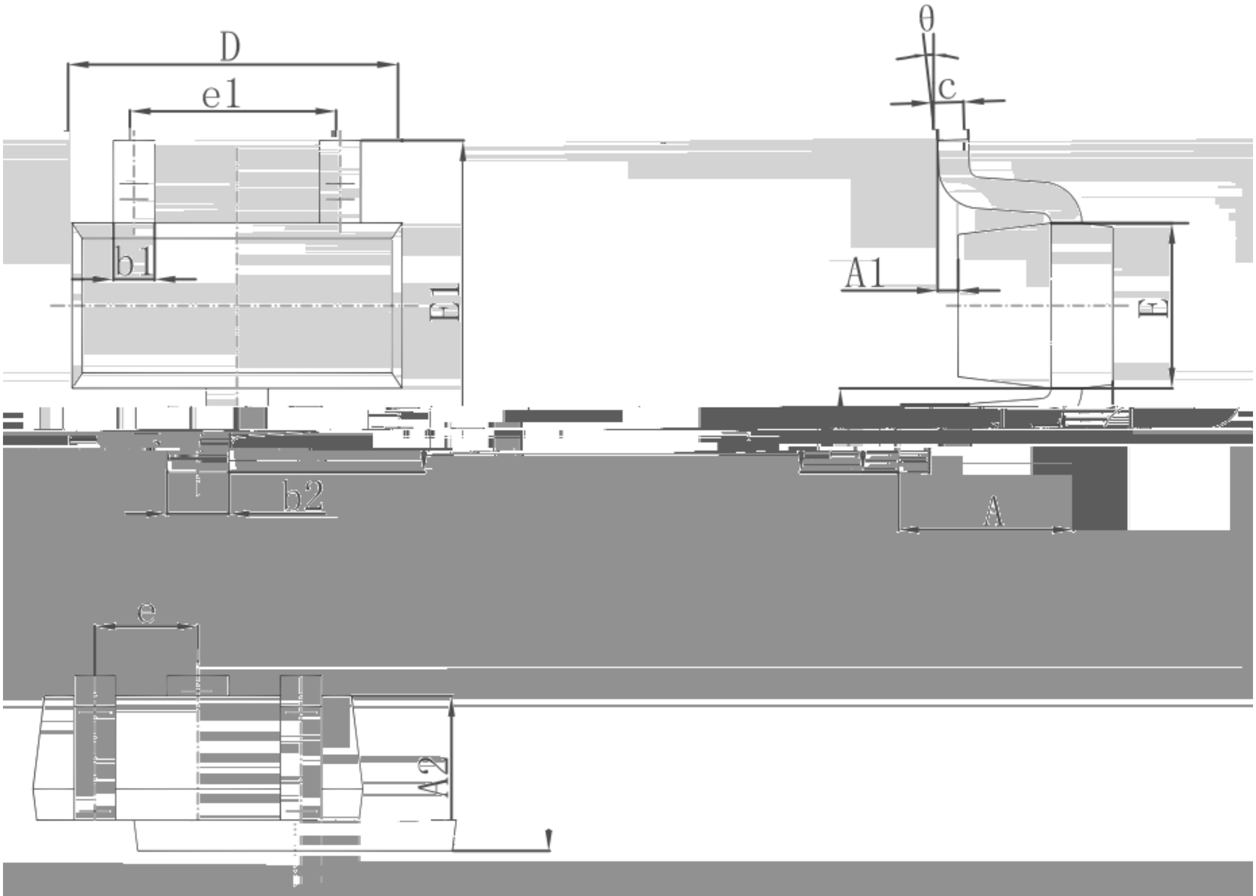


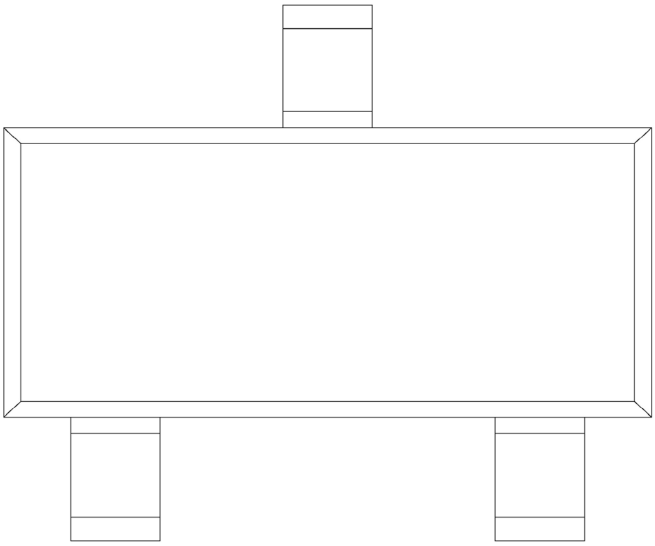
Figure 5. IS vs VSD

/ Package Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.700	0.900	0.028	0.035
A1	0.000	0.100	0.000	0.004
A2	0.700	0.800	0.028	0.031
b1	0.150	0.250	0.006	0.010
b2	0.250	0.350	0.010	0.014
c	0.100	0.200	0.004	0.008
D	1.500	1.700	0.059	0.067
E	0.700	0.900	0.028	0.035
E1	1.450	1.750	0.057	0.069
e	0.500 TYP.		0.020 TYP.	
e1	0.900	1.100	0.035	0.043
L	0.400 REF.		0.016 REF.	
L1	0.260	0.460	0.010	0.018
θ	0°	8°	0°	8°

/ Marking Instructions



39K

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

1 150 180 60 90sec;
2 245 5 5 0.5sec;
3 2 10 /sec.

Note:
1.Preheating:150~180 , Time:60~90sec.
2.Peak Temp.:245 5 , Duration:5 0.5sec.
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 mm³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box

[redacted]