Feature

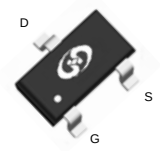
- High Speed Power Switching, Logic Level
- Enhanced Avalanche Ruggedness
- 100% UIS Tested, 100% Rg Tested
- Lead Free, Halogen Free

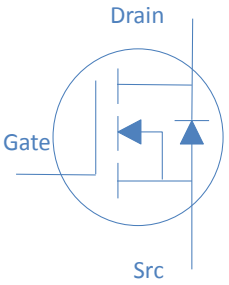
V_{DS}		20	V
$R_{DS(on),typ}$	V_{GS}=4.5V	36	mΩ
$R_{DS(on),typ}$	V_{GS}=2.5V	43	mΩ
$R_{DS(on),typ}$	V_{GS}=1.8V	58	mΩ
$I_{D\ (Sillicon\ Limited)}$		3.6	A

Application

- Hard Switching and High Speed Circuit
- DC/DC in Telecoms and Inductrial

SOT-23





	Package	
	SOT23	1Y

Absolute Maximum Ratings at T_j

	Symbol	Conditions	Value	Unit
	I_D	T_A	3.6	A
		T_A	2.9	
	V_{DS}	-	20	V
	V_{GS}	-	±12	V
	I_{DM}	-	14	A
	P_D	T_A	1.04	
	T_J, T_{stg}	-	-55 to150	

Absolute Maximum Ratings

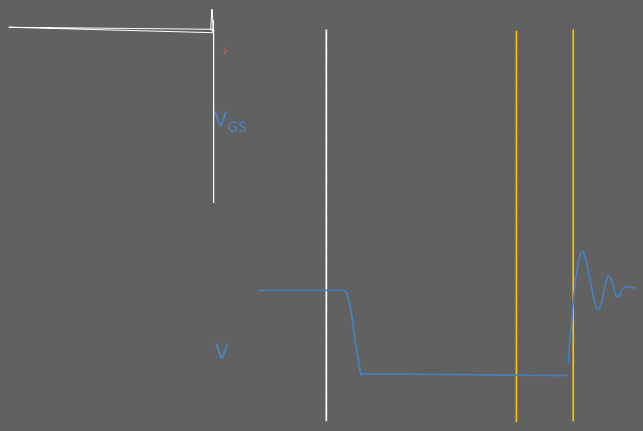
	Symbol	Max	Unit
	$R_{\theta JA}$	120	

Sep. 2018

j

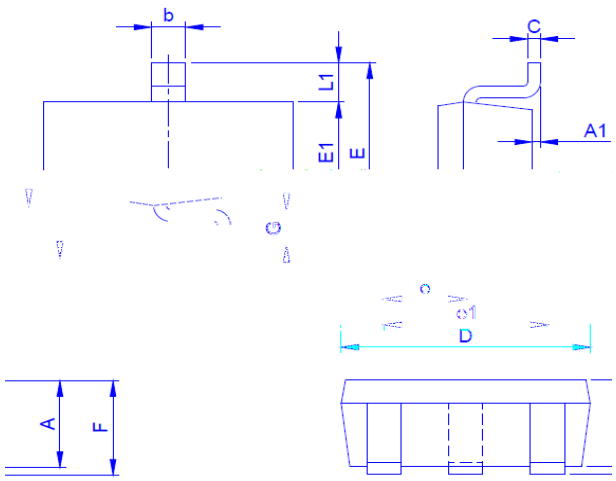
Symbol	Conditions	Value min	Value typ	Value max	Unit
V	V_{GS}=0V, I_D=250µA	20	-	-	V
V	V_{GS}=V_{DS}, I_D=250µA	0.40	0.75	1.2	
I_{DSS}	V_{GS}=0V, V_{DS}=16V, T_j	-	-	1	µA
	V_{GS}=0V, V_{DS}=16V, T_j	-	-	10	
I_{GSS}	V_{GS}=±12V, V_{DS}=0V	-	-	±100	nA
$R_{DS(on)}$	V_{GS}=4.5V, I_D=3.5A	-	36	45	mΩ
	V_{GS}=2.5V, I_D=2A	-	43	60	
	V_{GS}=1.8V, I_D=1A	-	58	85	
g	V_{DS}=5V, I_D=3.5A	-	5	-	S

Input Capacitance	C_{iss}			-	
Output Capacitance		V_{GS}=0V, V_{DS}		56	-
	C				
			-		
		V_{DD}=10V, I_D=3.5A, V_{GS}=4.5V			
	Q_{gd}				


V_{GS}
V

Package Outline

SOT-23, 3leads



Dimension in mm

Dimension	A	A1	b	C	D	E	E1	e	e1	F	G	L1
Min.	0.70	0	0.3	0.08	2.80	2.25	1.2	0.90		0.80	0.3	0.50
Typ.					2.90			0.95	1.9			
Max.												