This device is suitable for use as a load switch or in PWM applications.

$R_{DS(ON)}$ to minimize conductive loss

fast switching

PWM

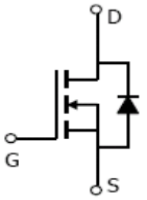
nd Synchronous Rectifer

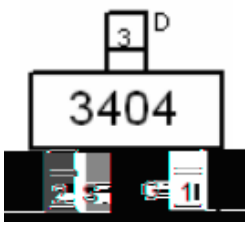
Product Summary

V_{DS} =30V

$R_{DS(ON)}$ =19mΩ

I_D =5A





SOT-23

Part NO.	ZM3404
Marking	3404
Packing Information	REEL TAPE
Basic ordering unit (pcs)	3000

Absolute Maximum Ratings T_C =25

Parameter	**Symbol**	Rating	Unit
Drain-Source Voltage	V_{DS}	30	V
Gate-Source Voltage	V_{GS}	20	V
Continuous Drain Current	$I_{D@}$TC=25	5	A
	$I_{D@}$TC=75	3.8	A
	$I_{D@}$TC=100	3.1	A
Pulsed Drain Current	I_{DM}	30	A
Total Power Dissipation(TA=25)	P_D@TA=25	1.3	W
Total Power Dissipation(TA=25)	P_D@TA=70	0.9	W
Operating Junction Temperature	T_J	-55 to 150	
Storage Temperature	T_{STG}	-55 to 150	

Parameter	Symbol	Condition	Min.	Typ	Max.	Unit
Drain-Source Breakdown Voltage	BV_{DSS}	V_{GS} =0V,I_D =250uA	30			V
Gate Threshold Voltage	$V_{GS(TH)}$	V_{GS} =V_{DS}, I_D =250uA	1.2	1.8	2.5	V
Drain-Source Leakage Current	I_{DSS}	V_{DS}=30V, V_{GS} =0V			1.0	uA
Gate- Source Leakage Current	I_{GSS}	V_{GS}=±20V ,V_{DS} =0V			100	nA
Static Drain-source On Resistance	$R_{DS(ON)}$	V_{GS}=10V, I_D=4.5A			. 3	
		V_{GS}=4.5V, I_D=4A		. 4	0	
Forward Transconductance	g_{FS}	V_{DS} =5V, I_D=5A		1		
Source-Drain Voltage	V_{SD}	V $_{GS}$ =0V I S =1A				

Parameter	Symbol	Condition	Min.	Typ	Max.	Unit
Input capacitance	Ciss	VGS = 0V	-	390	-	
Output capacitance	Coss	VDS =15V				pF
		f = 1MHz				

Fig.1 Power Dissipation

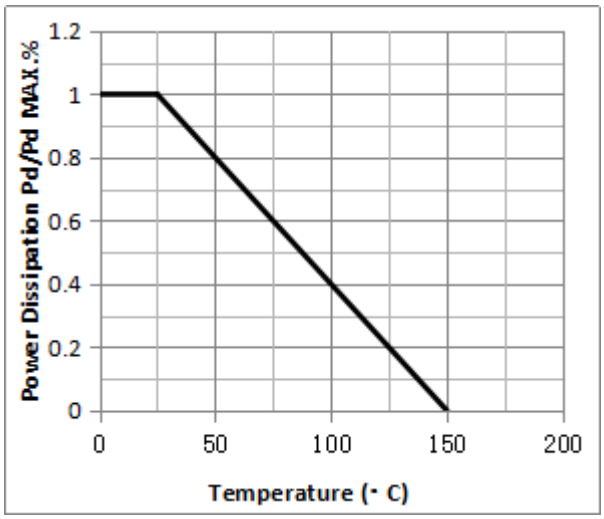


Fig.2 Typical output Characteristics

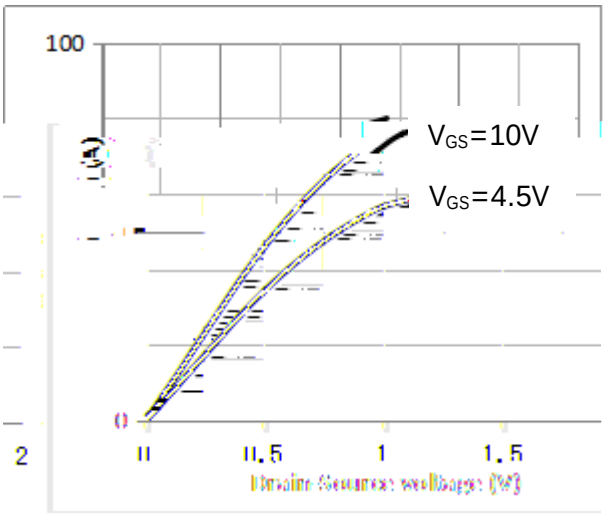


Fig.3 Threshold Voltage V.S Junction Temperature

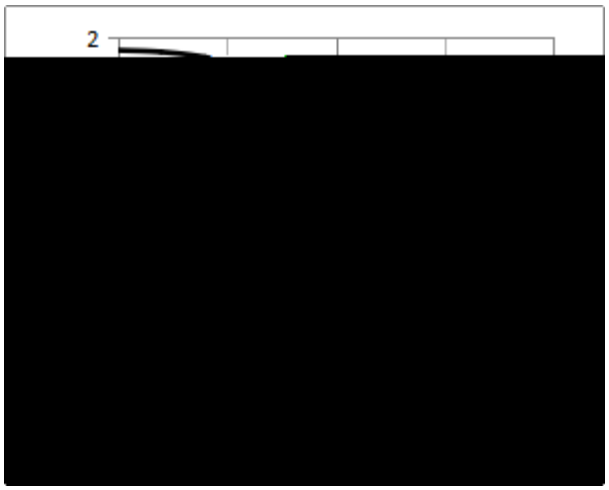


Fig.4 Resistance V.S Drain Current

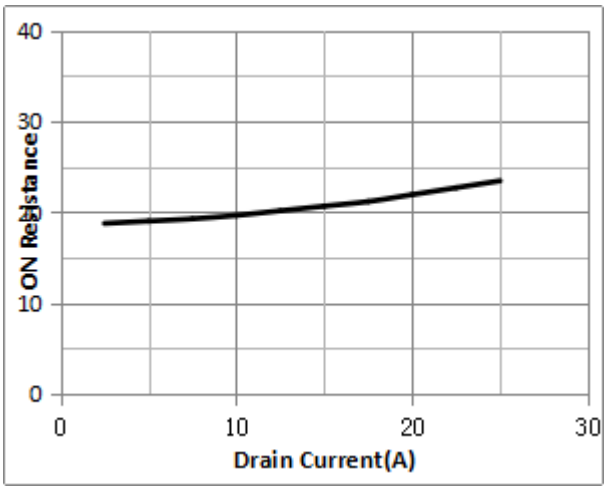


Fig.5 On-Resistance VS Gate Source Voltage

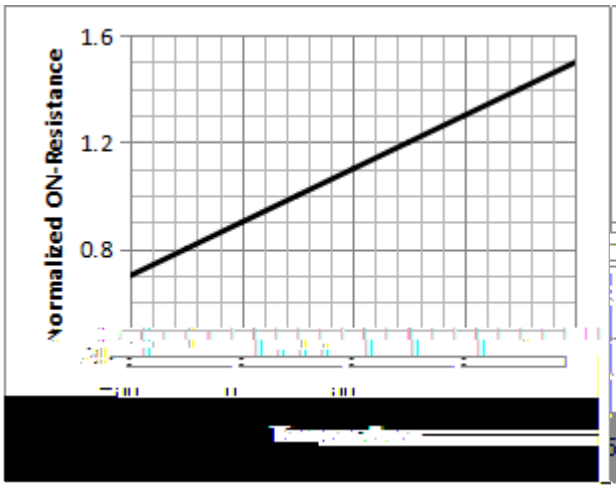
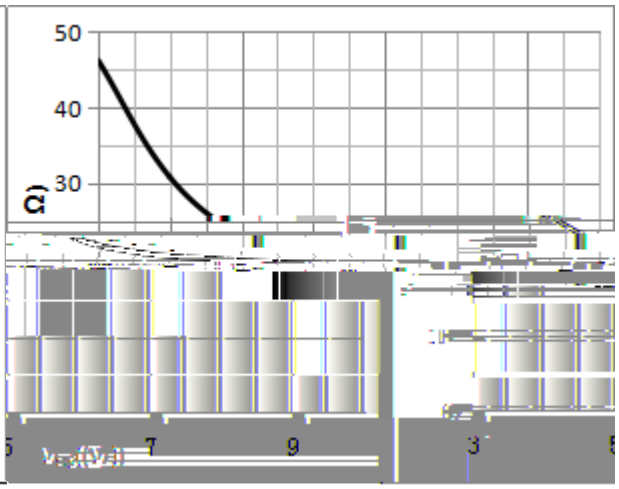


Fig.6 On-Resistance V.S Junction Temperature



Dimensions (SOT-23)

Unit mm