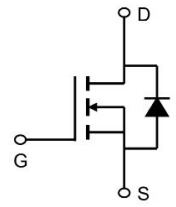
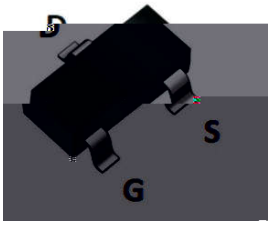
30V N-CHANNEL ENHANCEMENT MODE MOSFET

MAIN CHARACTERISTICS

I_D	
V_{DS}	
R_{DSON}-typ (@V_{GS}=10V)	(Typ:18mΩ)
R_{DSON}-typ(@V_{GS}=4.5V)	(Typ:20mΩ)





SOT-23

Marking Code	
YFW3400B	.A09T

FEATURES

Applications

Absolute Maximum Ratings (Ta=25 unless otherwise noted)

Parameter	Symbols	Value	Units
	V_{DS}		V
	V_{GS}		V
	I_D		A
	I_D		A
	I_{DM}		A
	P_D		W
	T_J		°C
	T_{STG}		°C
	$R_{\theta JA}$		°C/W

Electrical Characteristics (T_J=25 ,unless otherwise noted)

Characteristics	Conditins	Symbol	Min	Typ	Max	Units
		$V_{(BR)DSS}$				V
		$V_{GS\ (th)}$				V
		I_{DSS}				μA
		I_{GSS}				nA
		$R_{DS(ON)}$				mΩ
		V_{SD}				V
		C_{iss}				
		C_{oss}				pF
		C_{rss}				
		Q_g				
		Q_{gs}				nC

Typical characteristics

Figure 1: Output Characteristics

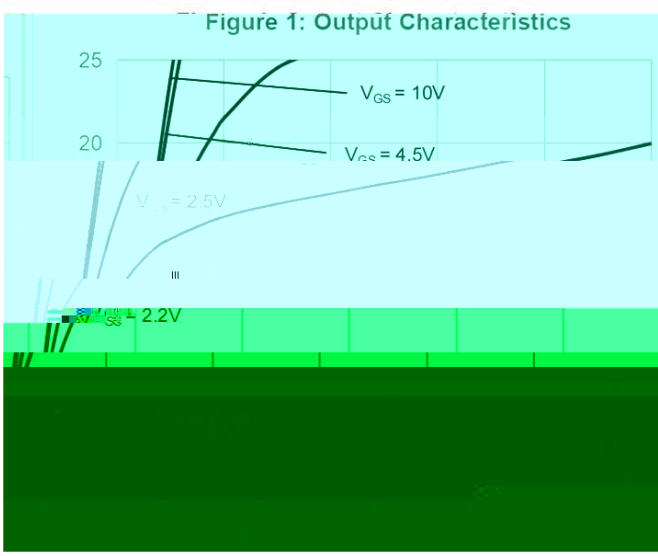


Figure 2: Typical Transfer Characteristics

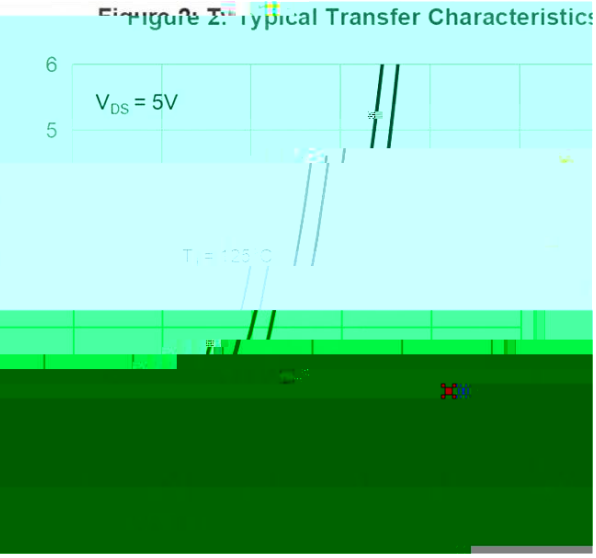


Figure 3: On-Resistance vs. Drain Current

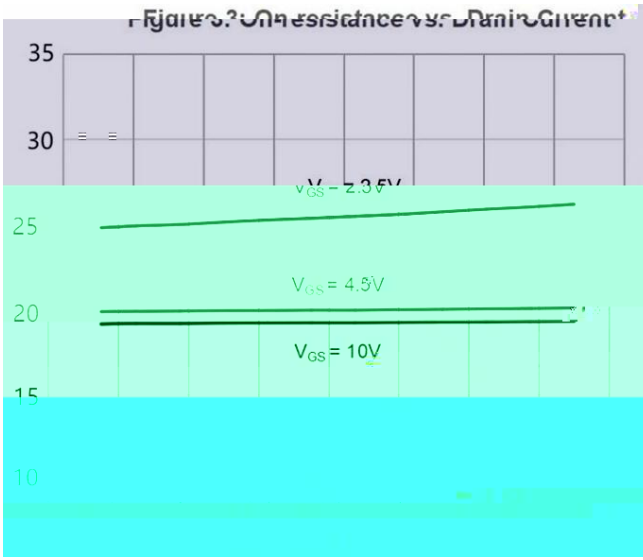


Figure 4: Body Diode Characteristics

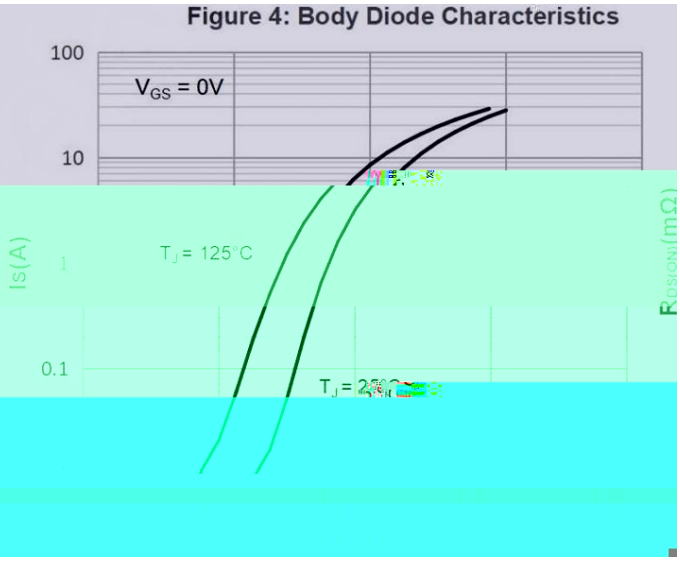


Figure 5: Gate Charge Characteristics

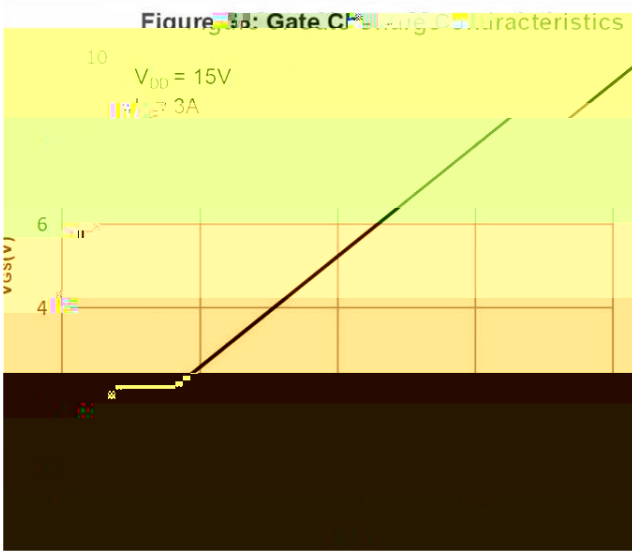


Figure 6: Capacitance Characteristics

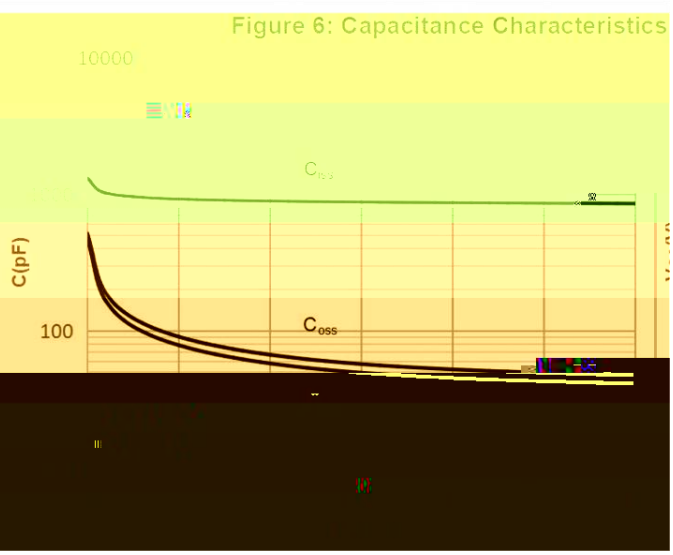


Figure 7: Normalized Breakdown voltage vs. Junction Temperature

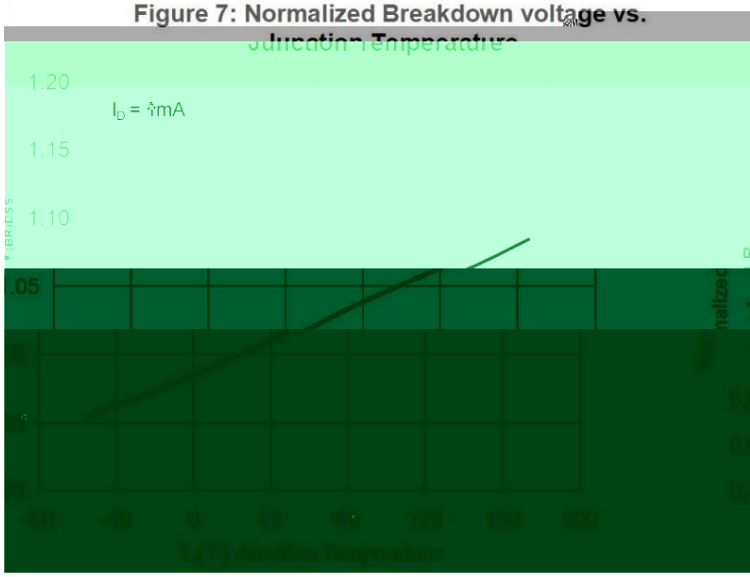


Figure 8: Normalized on Resistance vs. Junction Temperature

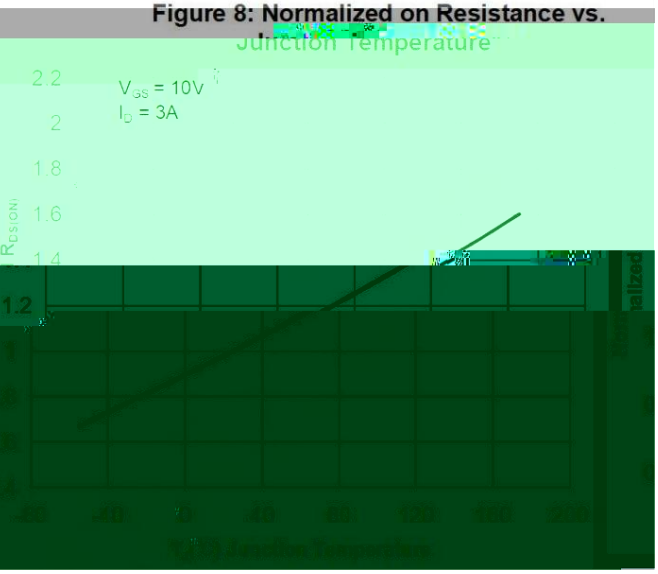


Figure 9: Maximum Safe Operating Area

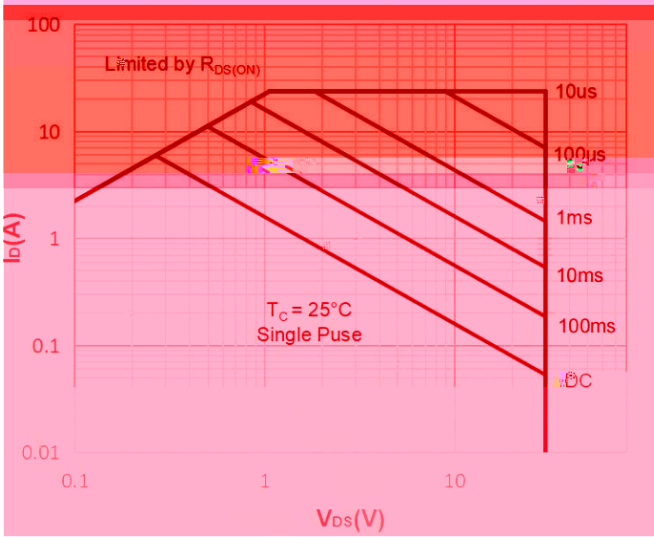


Figure 10: Maximum Continuous Drain Current vs. Case Temperature

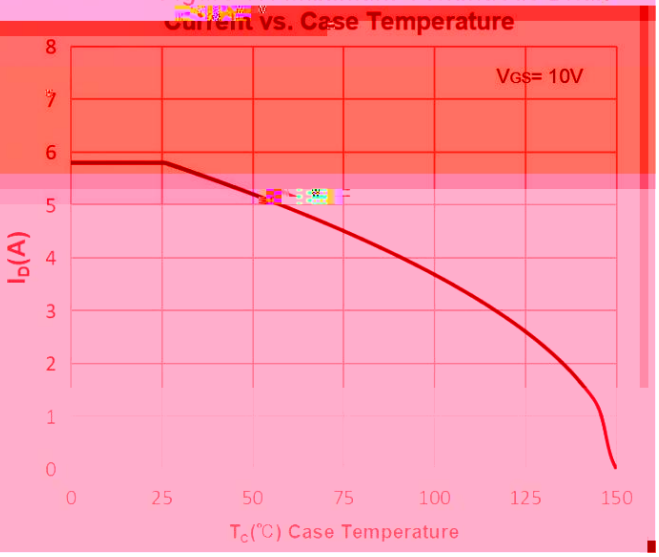


Figure 11: Normalized Maximum Transient Thermal Impedance

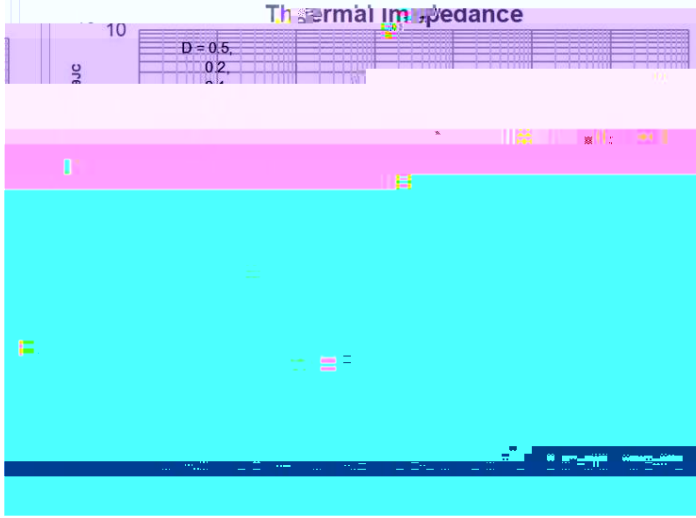
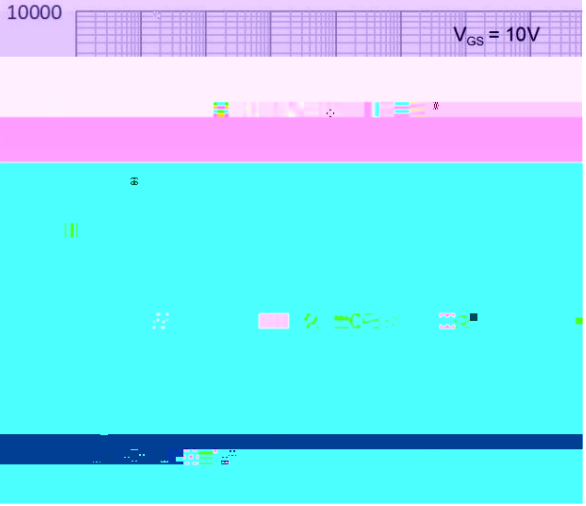


Figure 12: Peak Current Capability



Ordering information

Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7”reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-23

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.15	35	45
A1	0.1		3.9	
bp	0.38	0.48	15	19
C	0.08	0.15	3	6

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