



YJJ05N06AQ

N-Channel Enhancement Mode Field Effect Transistor

Product Summary

V_{DS}	60V
I_D	5.0A
$R_{DS(ON)}$ (at $V_{GS}=10V$)	43m
$R_{DS(ON)}$ (at $V_{GS}=4.5V$)	47m

General Description

Low $R_{DS(on)}$ & FOM
Extremely low switching loss

Epoxy Meets UL 94 V-0 Flammability Rating
-Q101 qualified

Halogen Free

Applications

Absolute Maximum Ratings ($T_A=25$ unless otherwise noted)

Parameter		Symbol	Limit	Unit
Drain-source Voltage		V_{DS}	60	V
Gate-source Voltage		V_{GS}	± 20	V
Drain Current	$T_A=25$	I_D	5	A
	$T_A=100$		3	
Pulsed Drain Current ^A		I_{DM}	20	A
Total Power Dissipation ^C	$T_A=25$	P_D	1.25	W
	$T_A=100$		0.5	
Junction and Storage Temperature Range		T_J, T_{STG}	-55 +150	

Thermal resistance

Parameter		Symbol	Typ	Max	Units
Thermal Resistance Junction-to-Ambient ^D	Steady-State	R	80	100	/W

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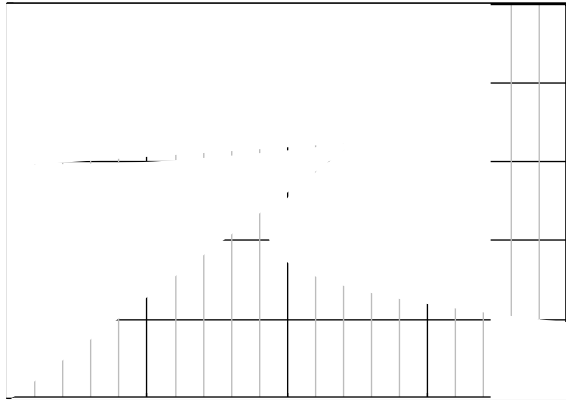


Figure 7. $R_{DS(on)}$ VS Drain Current

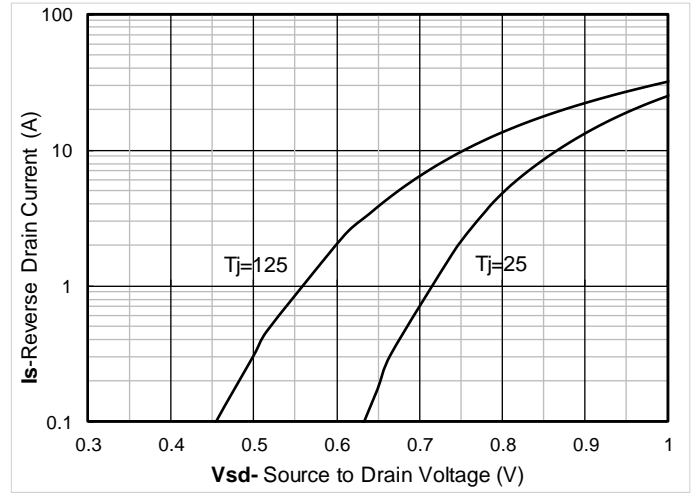


Figure 8. Forward characteristics of reverse diode

Figure 9. Normalized breakdown voltage

Figure 10. Normalized Threshold voltage

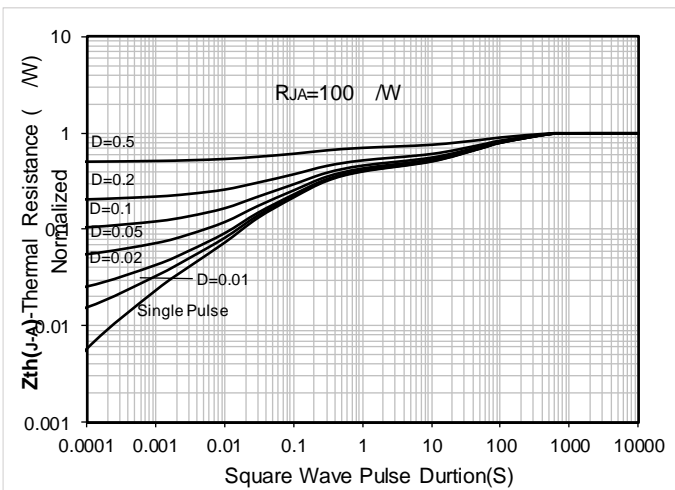


Figure 11. Maximum Transient Thermal Impedance

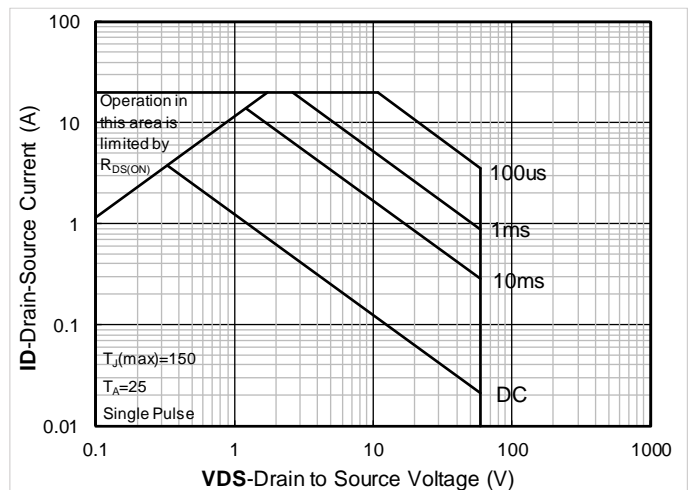
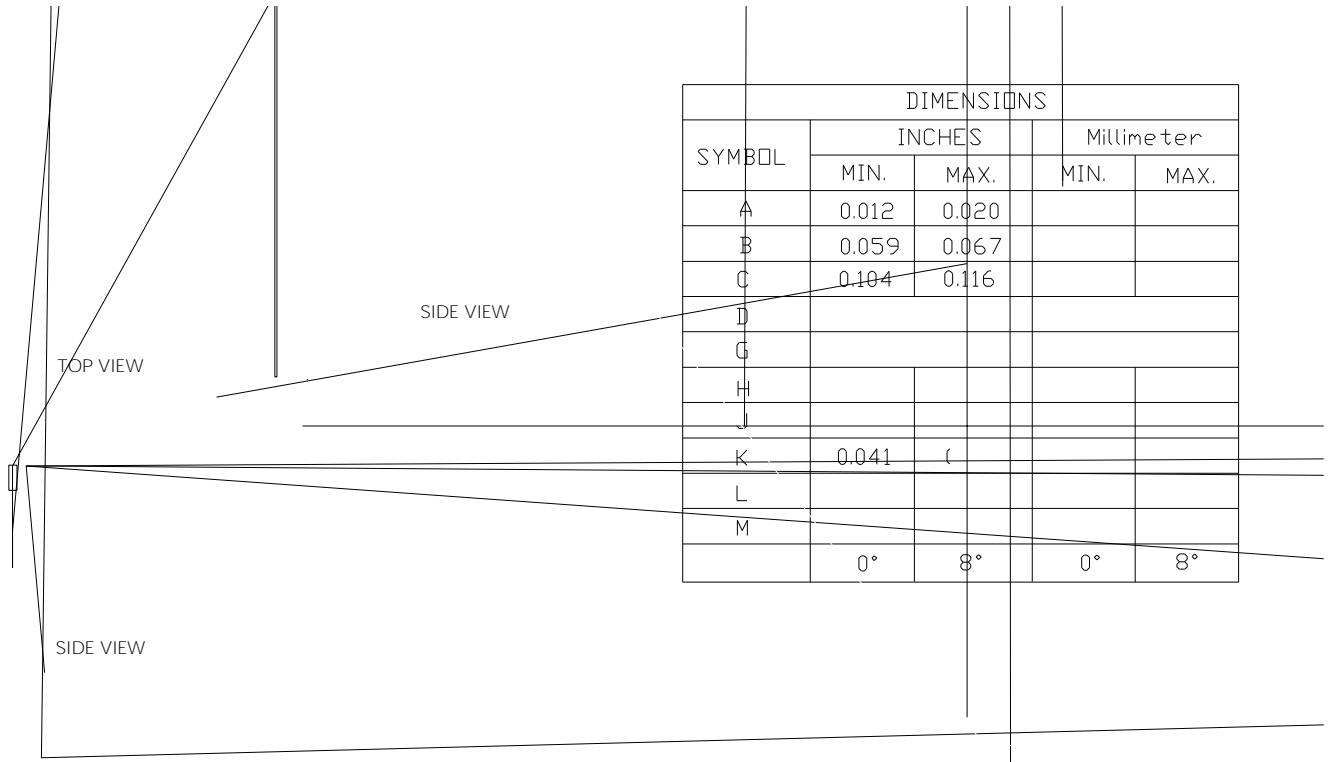


Figure 12. Safe Operation Area



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SOT-23-6L Package information





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