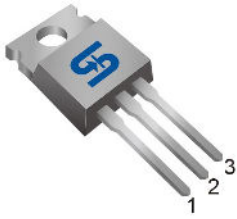


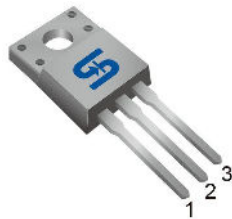
TSM480P06

60V P-Channel Power MOSFET

TO-220



ITO-220



Pin Definition:

1. Gate
2. Drain
3. Source

Key Parameter Performance

Parameter	Value	Unit
V_{DS}	-60	V
$R_{DS(on)}$ (max)	$V_{GS} = -10V$ 48	m

TSM480P06CP ROG

TO-252

2.5kpcs / 13

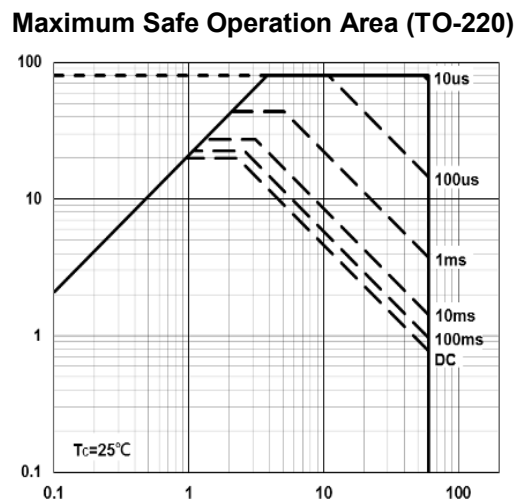
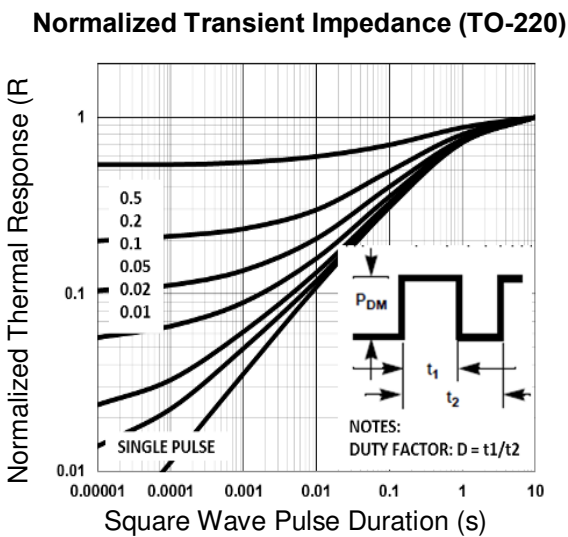
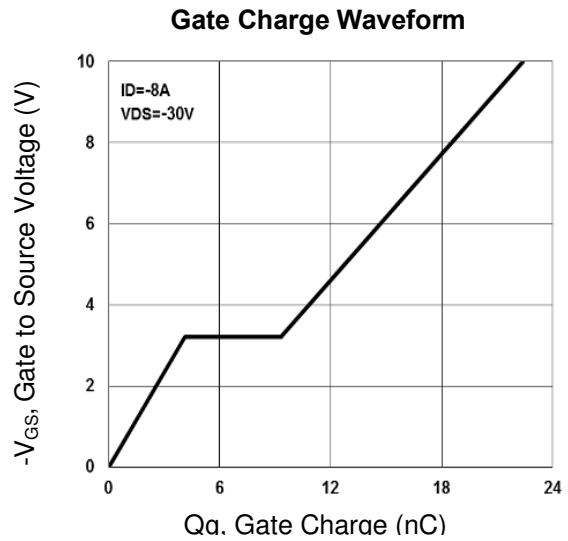
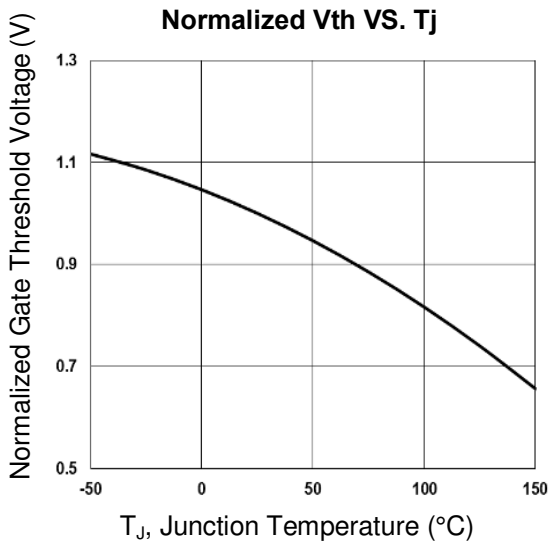
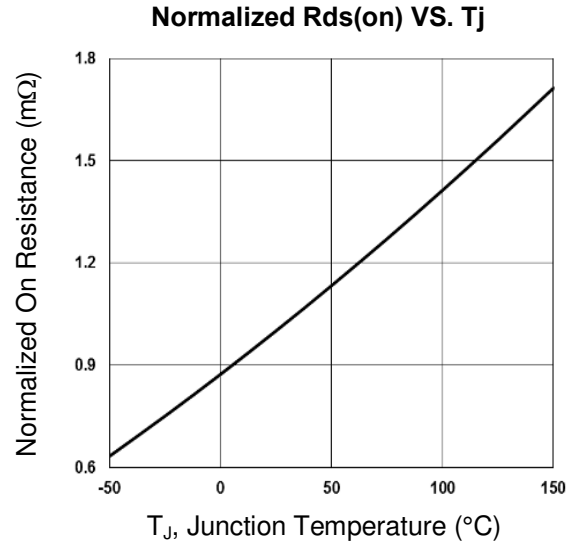
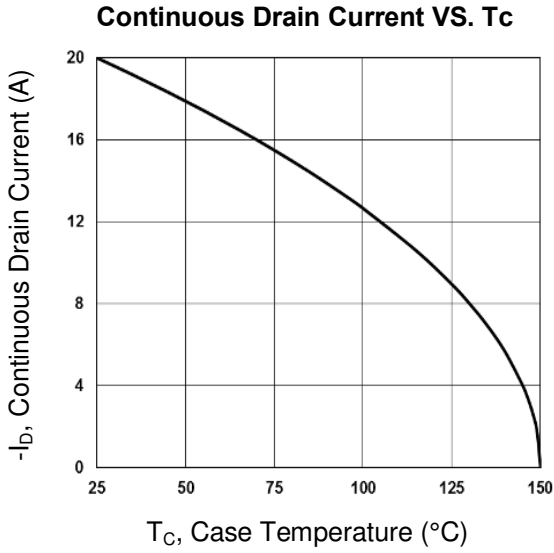
TSM480P06CI COG
TSM480P06CZ COG
Not Recommended

		Limit			Unit
		I-PAK/DPAK	ITO-220	TO-220	
Drain-Source Voltage	V_{DS}	-60			V
Gate-Source Voltage	V_{GS}	±20			V
Continuous Drain Current (Note 1)	$T_C = 25^\circ C$	-20			A
	$T_C = 100^\circ C$	-13			A
Pulsed Drain Current (Note 2)	I_{DM}	-64			A
Single Pulse Avalanche Energy (Note 3)	E_{AS}	51			mJ
Single Pulse Avalanche Current (Note 2)	I_{AS}	-32			A
Power Dissipation @ $T_C = 25^\circ C$	P_D	40	27	66	W
Operating Junction Temperature	T_J	-50 to +150			$^\circ C$
Storage Temperature Range	T_{STG}	-50 to +150			$^\circ C$

Thermal Performance

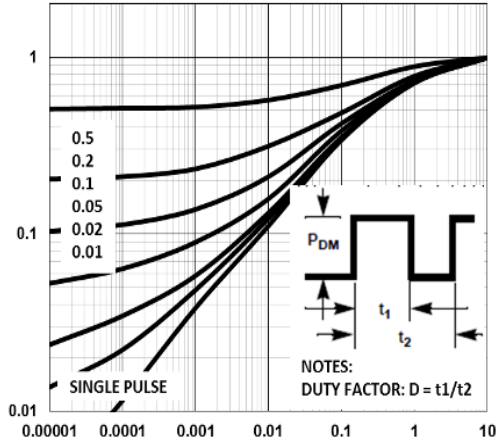
Parameter	Symbol	Limit			Unit
		IPAK/DPAK	ITO-220	TO-220	
Thermal Resistance - Junction to Case	R				

Electrical Characteristics Curve

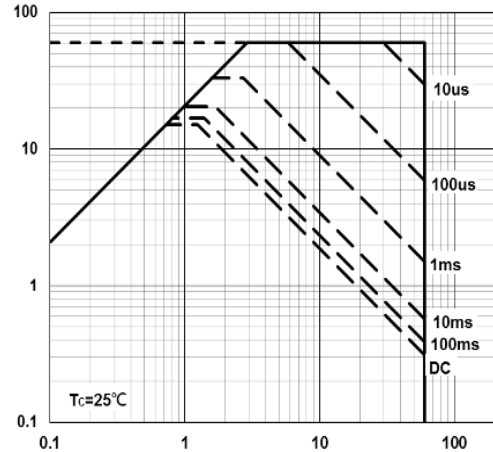


Electrical Characteristics Curve

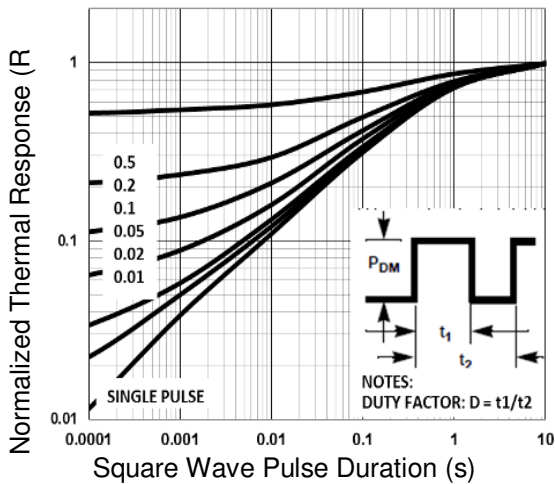
Normalized Transient Impedance (ITO-220)



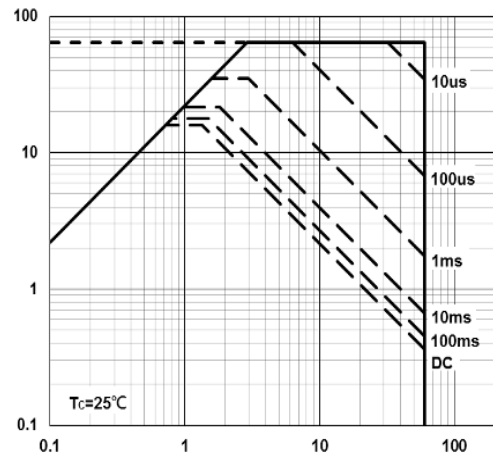
Maximum Safe Operation Area (ITO-220)



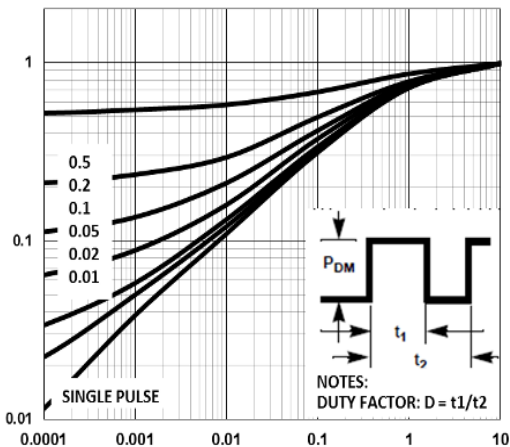
Normalized Transient Impedance (TO-251S)



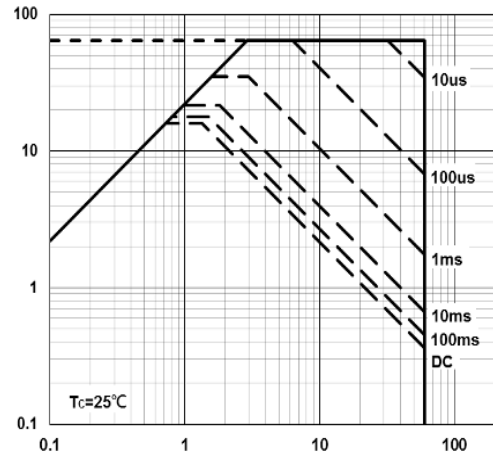
Maximum Safe Operation Area (TO-251S)



Normalized Transient Impedance (TO-252)

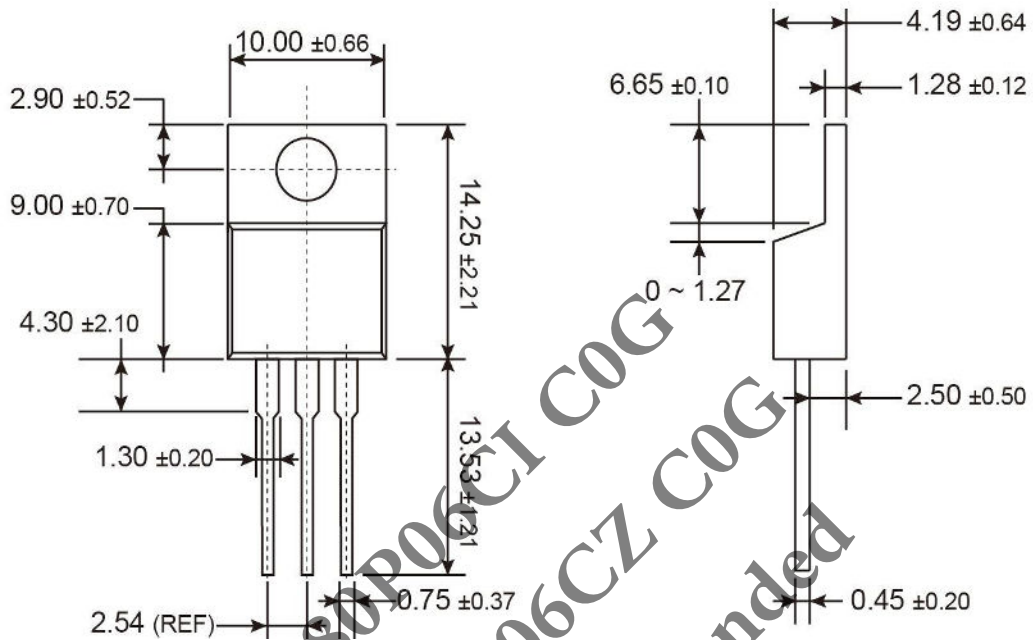


Maximum Safe Operation Area (TO-252)





TO-220 Mechanical Drawing



Unit: Millimeters

Marking Diagram

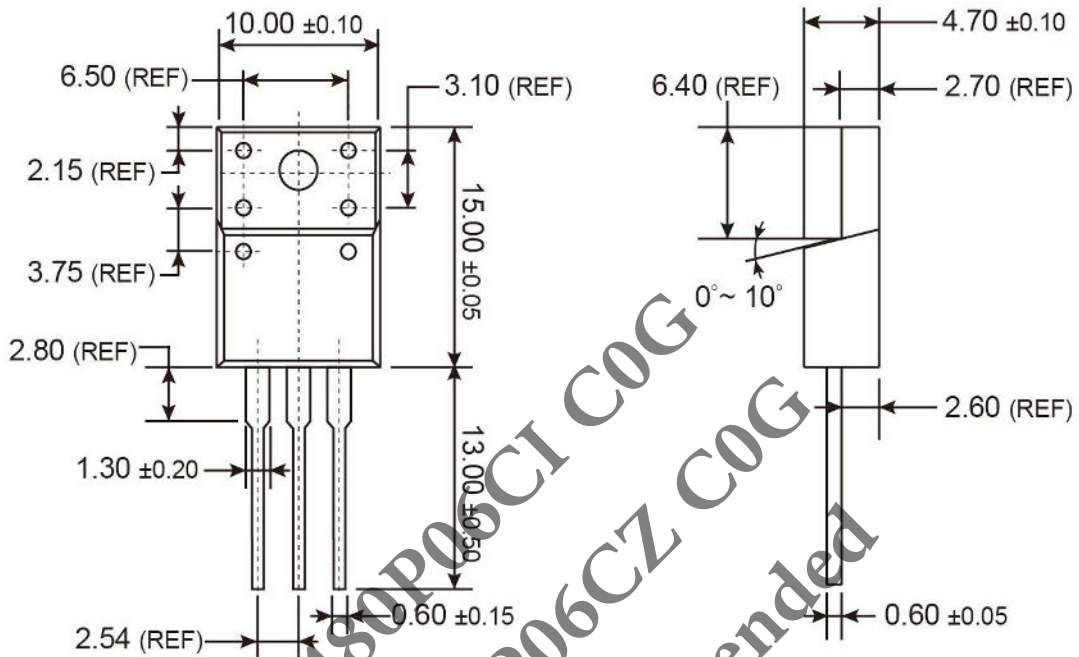


- G** = Halogen Free
- Y** = Year Code
- WW** = Week Code (01~52)
- F** = Factory Code

TSM480P06CI COG
TSM480P06CZ COG
Not Recommended



ITO-220 Mechanical Drawing



Unit: Millimeters

Marking Diagram

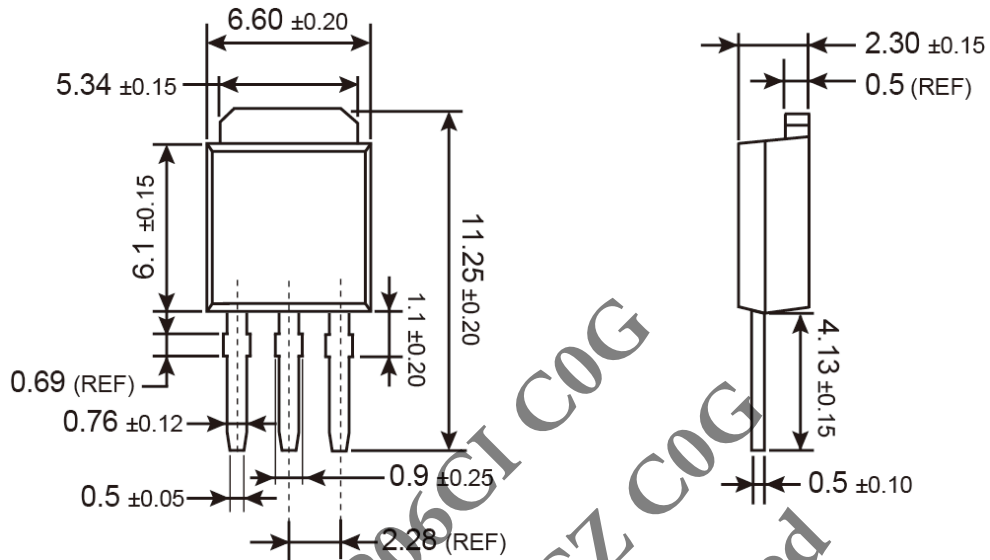


- G** = Halogen Free
- Y** = Year Code
- WW** = Week Code (01~52)
- F** = Factory Code

TSM480P06CI COG
TSM480P06CZ COG
Not Recommended

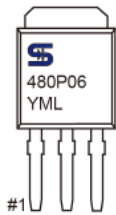


TO-251S Mechanical Drawing



Unit: Millimeters

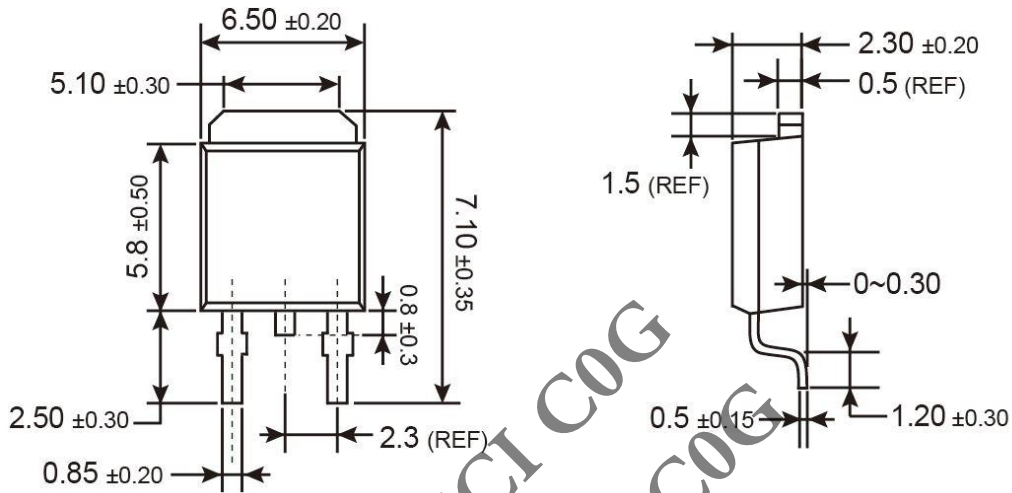
Marking Diagram



- Y** = Year Code
- M** = Month Code for Halogen Free Product
(**O**=Jan, **P**=Feb, **Q**=Mar, **R**=Apr, **S**=May, **T**=Jun, **U**=Jul, **V**=Aug, **W**=Sep, **X**=Oct, **Y**=Nov, **Z**=Dec)
- L** = Lot Code



TO-252 Mechanical Drawing



Unit: Millimeters

Marking Diagram



- Y** = Year Code
- M** = Month Code for Halogen Free Product
(**O**=Jan, **P**=Feb, **Q**=Mar, **R**=Apr, **S**=May, **T**=Jun, **U**=Jul, **V**=Aug, **W**=Sep, **X**=Oct, **Y**=Nov, **Z**=Dec)
- L** = Lot Code

TSM480P06

60V P-Channel Power MOSFET

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