

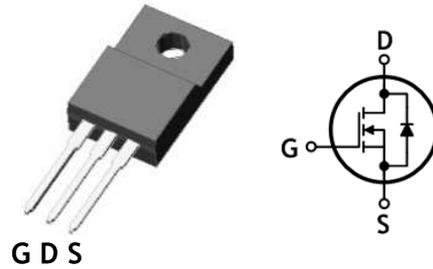
SWITCHING REGULATOR APPLICATION

Features

- Drain-source breakdown voltage: $BV_{DSS}=800V$ (Min.)
- Low gate charge: $Q_g=14.2nC$ (Typ.)
- Low drain-source On resistance: $R_{DS(on)}=3.5\Omega$ (Typ.)
- RoHS compliant device
- 100% avalanche tested

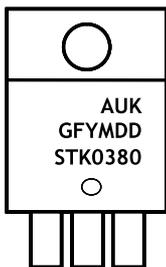
Ordering Information

Part Number	Marking	Package
STK0380F	STK0380	TO-220F-3L



TO-220F-3L

Marking Information



Column 1 : Manufacturer
 Column 2 : Production Information
 e.g.) GFYMDD
 -. G : Option Code (H : Halogen Free)
 -. F : Factory Management Code
 -. YMDD : Date Code (Year, Month, Date)
 Column 3 : Device Code

Absolute maximum ratings ($T_c=25^\circ C$ unless otherwise noted)

Characteristic	Symbol	Rating	Unit	
Drain-source voltage	V_{DSS}	800	V	
Gate-source voltage	V_{GSS}	± 30	V	
Drain current (DC) *	I_D	$T_c=25^\circ C$	3	A
		$T_c=100^\circ C$	1.8	A
Drain current (Pulsed) *	I_{DM}	12	A	
Single pulsed avalanche energy ^(Note 2)	E_{AS}	335	mJ	
Repetitive avalanche current ^(Note 1)	I_{AR}	3	A	
Repetitive avalanche energy ^(Note 1)	E_{AR}	11.5	mJ	
Power dissipation	P_D	30	W	
Junction temperature	T_J	150	$^\circ C$	
Storage temperature range	T_{stg}	-55~150	$^\circ C$	

* Limited only maximum junction temperature