

# 110(G, L, Q, U)2G43

SILICON DIFFUSED TYPE  
RECTIFIER MODULE

SINGLE & THREE PHASE FULL WAVE BRIDGE APPLICATIONS.

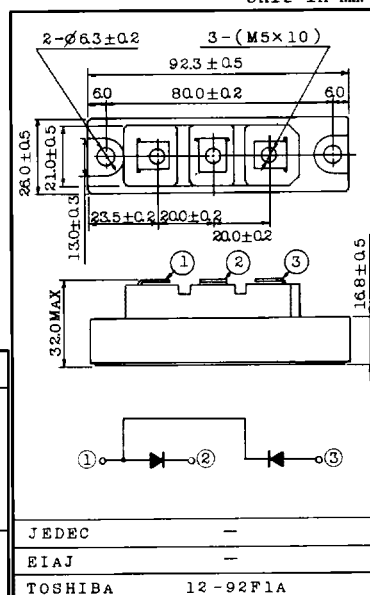
## FEATURES:

- Repetitive Peak Reverse Voltage :  $V_{RRM}=400\sim 1600V$
- Average Output Rectified Current :  $I_O=110A(1\phi)$   
 $I_O=160A(3\phi)$
- Isolation Voltage : 110G2G43, 110L2G43 - 2000V AC  
110Q2G43, 110U2G43 - 2500V AC
- Plastic Mold Package

## MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	110G2G43	400	V
	110L2G43	800	
	110Q2G43	1200	
	110U2G43	1600	
Average Output Rectified Current ( $T_c=110^\circ C$ )	$I_O$	110(1 $\phi$ )	A
		160(3 $\phi$ )	
Peak One Cycle Surge Forward Current (Non-Repetitive)	$I_{FSM}$	1600(50Hz)	A
		1760(60Hz)	
$I^2t$ Limit Value	$I^2t$	12800	$A^2s$
Junction Temperature	$T_j$	-40~150	$^\circ C$
Storage Temperature	$T_{stg}$	-40~125	$^\circ C$
Screw Torque (Note 1)	M5	20	kg·cm
	M6	30	
Isolation Voltage (AC, $t=60sec$ )	110G2G43	2000	V
	110L2G43		
	110Q2G43	2500	
	110U2G43		

Unit in mm



JEDEC	-
EIAJ	-
TOSHIBA	12-92F1A

Weight : 120g

Note 1: Recommended Torque

M5 : 16kg·cm

M6 : 24kg·cm

## ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ C$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Peak Forward Voltage (Note 2)	$V_{FM}$	$I_{FM}=160A$	-	1.2	V
Repetitive Peak Reverse Current (Note 2)	$I_{RRM}$	$V_{RRM}=\text{Rated}, T_j=150^\circ C$	-	20	mA
Thermal Resistance	$R_{th(j-c)}$	DC (Total)	-	0.3	$^\circ C/W$

Note 2: A value per one rectifier unit.

