

100(G, L, Q, U)6P43

SILICON DIFFUSED TYPE
RECTIFIER MODULE

THREE PHASE FULL WAVE BRIDGE APPLICATIONS.

FEATURES:

- Repetitive Peak Reverse Voltage : $V_{RRM}=400\sim 1600V$
- Average Output Rectified Current : $I_O=100A$
- Isolation Voltage : 100G6P43, 100L6P43 - 2000V AC
100Q6P43, 100U6P43 - 2500V AC
- Plastic Mold Package

MAXIMUM RATINGS

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	100G6P43	400	V
	100L6P43	800	
	100Q6P43	1200	
	100U6P43	1600	
Average Output Rectified Current (Tc=100°C)	I_O	100	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	1000(50Hz)	A
		1100(60Hz)	
I^2t Limit Value	I^2t	5000	A ² s
Junction Temperature	T_j	-40~150	°C
Storage Temperature	T_{stg}	-40~125	°C
Screw Torque (Note 1)	M5	20	kg·cm
	M6	30	
Isolation Voltage (AC, t=60sec)	100G6P43	2000	V
	100L6P43		
	100Q6P43	2500	
	100U6P43		

Note 1 : Recommended torque M5: 16kg·cm M6: 24kg·cm

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	MAX.	UNIT
Peak Forward Voltage (Note 2)	V_{FM}	$I_{FM}=100A$	-	1.2	V
Repetitive Peak Reverse Current (Note 2)	I_{RRM}	$V_{RRM}=\text{Rated}, T_j=150^\circ C$	-	5	mA
Thermal Resistance	$R_{th(j-c)}$	DC (Total)	-	0.22	°C/W

Note 2 : A value per one rectifier unit.



