

# 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 ( $T_c=100^\circ C$ )	$I_O$	100	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	$I_{FSM}$	1000(50Hz)	A
		1100(60Hz)	
$I^2t$ Limit Value	$I^2t$	5000	$A^2s$
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, $t=60sec$ )	100G6P43	2000	V
	100L6P43		
	100Q6P43	2500	
	100U6P43		

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)	$V_{FM}$	$I_{FM}=100A$	-	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	$^\circ C/W$

Note 2 : A value per one rectifier unit.



