

Three Phase Diode Bridges

SQL60-SQL100

Features

- Current:5-300A,Voltage:100-1600V
- All models feature the same compact dimensions to Provide a uniform mounting pitch
- Glass passivated diode chip
- Excellent power/volume ratio,High thermal conductivity Package, electrically insulated case

$$V_{RRM} = 100-1600 V$$

$$I_D = 60-100 A$$

$$V_F = 1.1 V$$

$$I_{FSM} = 400 A$$

Typical Applications

- Eliminator supply, industrial automatic control
- Numerical-controlled machinery, telecontrol system

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	VALUE		UNIT
			Min	Max	
$I_{F(AV)}$	Mean forward current	180 ° sine wave, 50HZ Double side cooled, THS=55°C	60	100	A
V_{RRM}	Repetitive peak reverse voltage	$V_{DRM} \& V_{RRM} t_p=10ms$ $V_{DSM} \& V_{RSM}=V_{DRM} \& V_{RRM}+100V$	100	1600	V
V_{RMS}	RMS current		70	860	V
V_{DC}	DC blocking voltage		100	1600	V
I_{FSM}	Surge on-state current	sine wave		400	A
V_F	Diode forward voltage	$I_F=17.5A$		1.1	V
I_R	Reverse leakage current	$T_a=25^\circ C$		10	uA
$I_{R(H)}$		$T_a=100^\circ C$		200	uA
$R_{th(j-c)}$	Thermal impedance node to the shell	180 ° sine wave, single heat sink		5.0	°C/W
$R_{th(c-a)}$	Thermal impedance (shell to powder)	180 ° sine wave, single heat sink		8	°C/W
V_{iso}	Insulation voltage		2500		V
T_J	Stored temperature		-40	125	°C
T_{stq}	Stored temperature		-40	150	°C
W_t	Weight			315	g