

New Product Information



Thyristor Module

PWA150STS16/200STS16
PWA150STA16/200STA16

Lineup of average on- state current 150A・200A!



■ Features

- 1.Supports various circuits depending on the connection pattern
- 2.Improves heat dissipation by original structure design
- 3.UL approved standard planned

■ Maximum Rating

Model		PWA150STS16 PWA150STA16	PWA200STS16 PWA200STA16	
Parameter	Symbol	Max. RatedValue		Unit
Repetitive Peak Off-State Voltage	V _{DRM}	1600		V
Non-Repetitive Peak Off-State Voltage	V _{RSM}	1700		
Repetitive Peak ReverseVoltage	V _{RRM}	1600		V
Non-Repetitive Peak ReverseVoltage	V _{RSM}	1700		

Model			PWA150STS16 PWA150STA16	PWA200STS16 PWA200STA16	
Parameter	Symbol	Conditions	Max. Rated Value		Unit
Average On-State Current	$I_{O(AV)}$	HalfSine Wave $T_C=73^{\circ}$ (PWA150type) $T_C=72^{\circ}$ (PWA200type)	150	200	A
RMS On-State Current	$I_{T(RMS)}$		235	314	A
Surge On- State Current	I_{TSM}	HalfSineWavePulse, Non-Repetitive	3200	4000	A
I squared t	I^2t	10ms	52000	80000	A ² s
Critical Rate of Rise of Turned-On Current	di/dt	$V_D=2/3V_{DRM}$ $I_{TM}=2 \cdot I_O$ $T_J=125^{\circ}$ $I_G=150mA$ $dig/dt=0.2A/\mu s$	150		A/ μs
Peak Gate Power	P_{GM}		5		W
Average Gate Power	$P_{G(AV)}$		1		W
Peak Gate Current	I_{GM}		2		A
Peak Gate Voltage	V_{GM}		10		V
Peak Gate Reverse Voltage	V_{RGM}		5		V
Operating Junction Temperature Range	T_{JW}		$-40 \sim +125$		$^{\circ}C$
Storage Temperature Range	T_{stg}		$-40 \sim +125$		$^{\circ}C$
Isolation Voltage	V_{iso}	Terminal to Base AC 1min	2500		V(RMS)
Mounting Torque(Base)	F	Greased	M6:2.5~3.5		N・m
Mounting Torque(Terminal)	F		M8:9.0~10.0		N・m

※Description is subject to change without prior notice.

