

SKBPC25005/SBR25005 THRU SKBPC2516/SBR2516

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SILICON/GLASS PASSIVATED THREE PHASE BRIDGE RECTIFIERS

Voltage Range 50 to 1600 Volts

Current 25 Amperes

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number		SKBPC	SKBPC	SKBPC	SKBPC	SKBPC	SKBPC	SKBPC	SKBPC	SKBPC	SKBPC	UNITS
		/SBR	/SBR	/SBR	/SBR	/SBR	/SBR	/SBR	/SBR	/SBR	/SBR	
		25005	2501	2502	2504	2506	2508	2510	2512	2514	25005	
I²t Rating for fusing (No Voltage Reapplied t=8.3ms at 60HZ) (No Voltage Reapplied t=10ms at 50HZ) (100% VRRM Reapplied t=8.3ms at 60HZ) (100% VRRM Reapplied t=10ms at 50HZ)	I ² t	580 635 410 450										A ² S
Forward Voltage (per element) @T_J=25°C, @IFM=40APK per single junction	V _F	1.26										V
Peak Reverse Current (per leg) @T_J=25°C uA At Rated DC Blocking Voltage @T_J=125°C	I _R	10 5.0										μ A mA
RMS Isolation Voltage from Case to Lead	V _{ISO}	2500										V
Thermal Resistance Junction to Case at DC Operation per Bridge	R _{θJC}	1.42										K/W
Thermal Resistance Case to Heatsink Mounting Surface, Smooth, Flat and Greased	R _{θCS}	0.2										K/W
Operating Temperature Range	T _J	-55 to +150										°C
Storage Temperature Range	T _{STG}	-55 to +150										°C

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FIG.1-CURRENT RATING CHARACTERISTICS

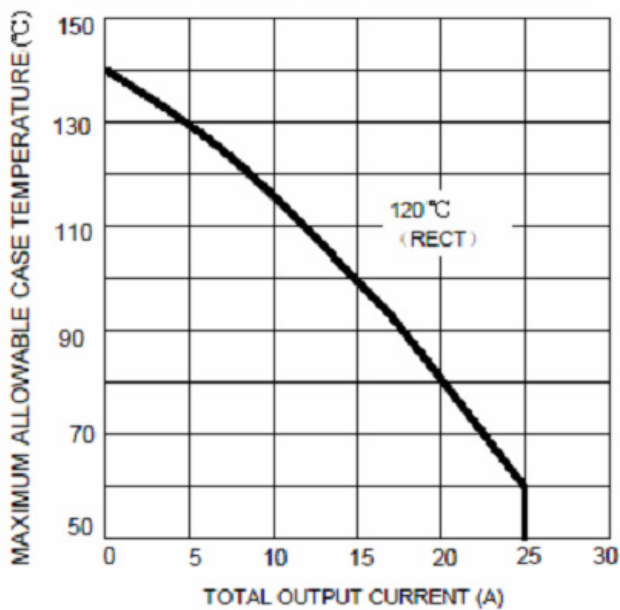


FIG.2-FORWARD VOLTAGE DROP CHARACTERISTICS

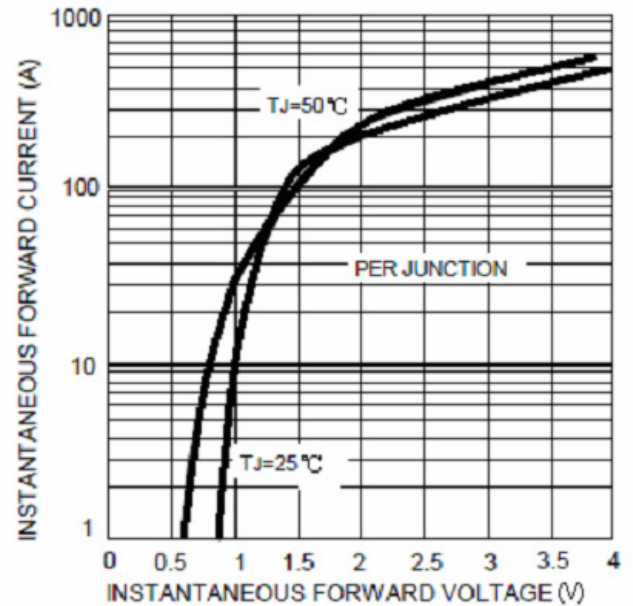


FIG.3-MAXIMUM NON-REPETITIVE SURGE CURRENT

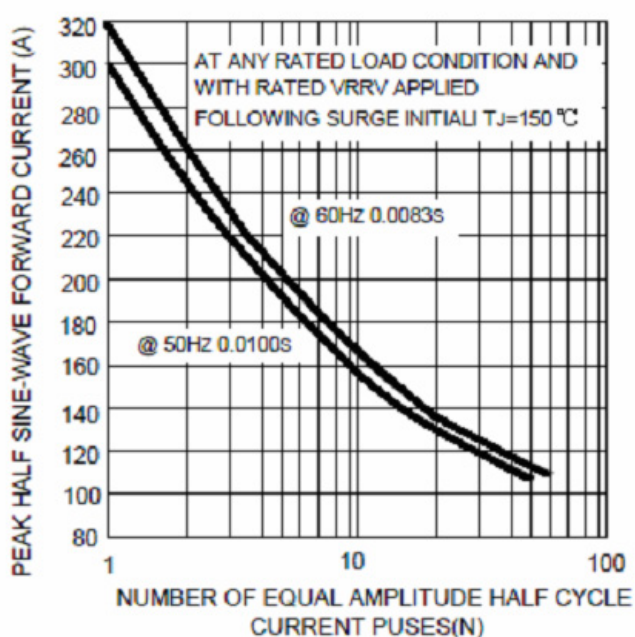
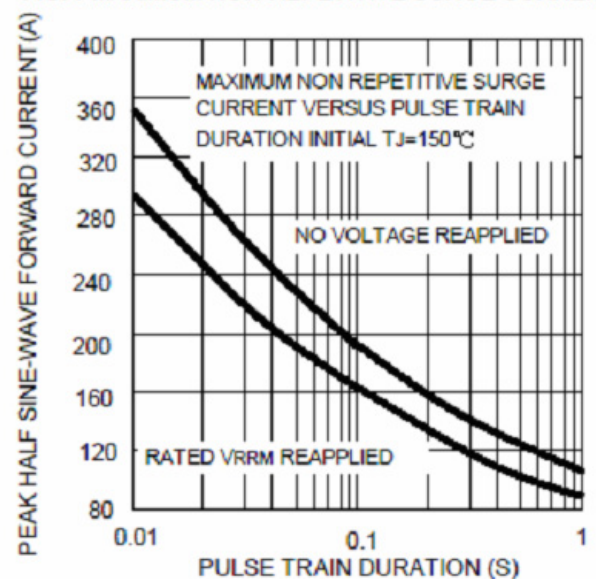


FIG.4-MAXIMUM NON-REPETITIVE SURGE CURRENT



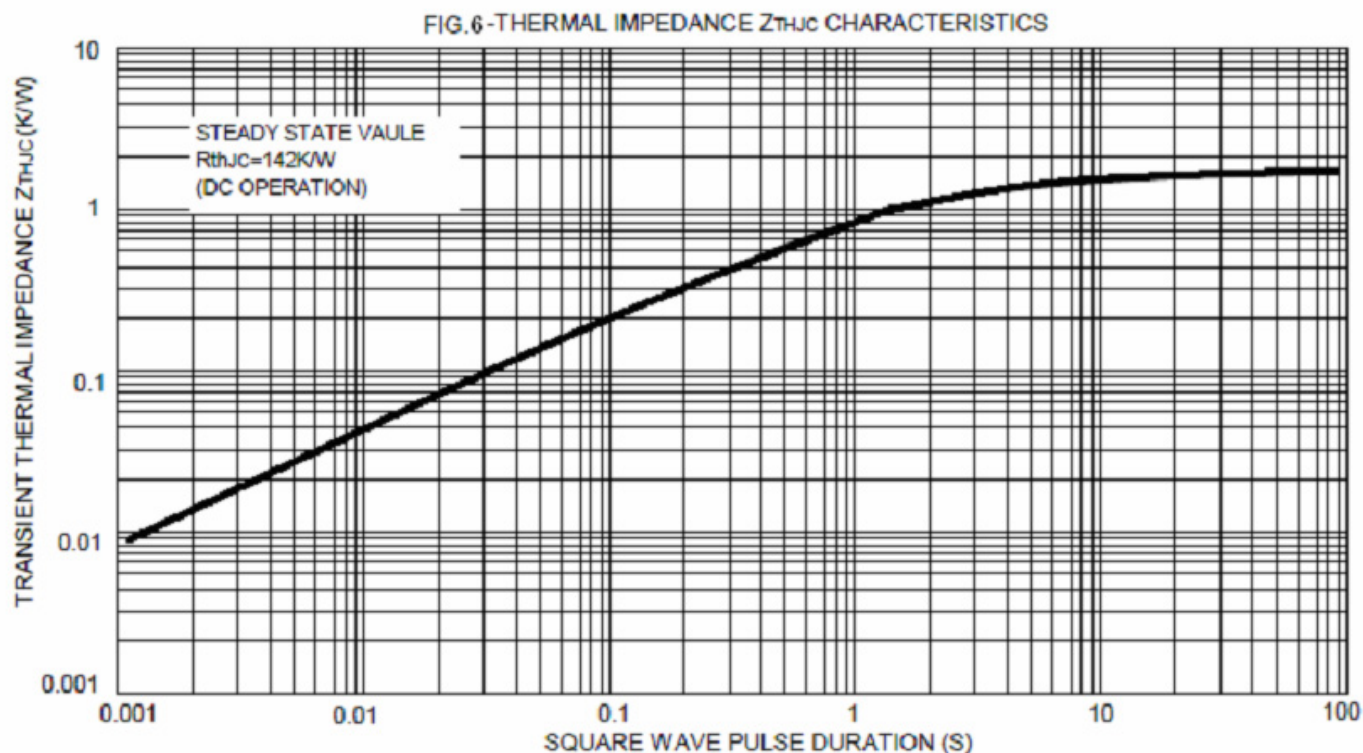
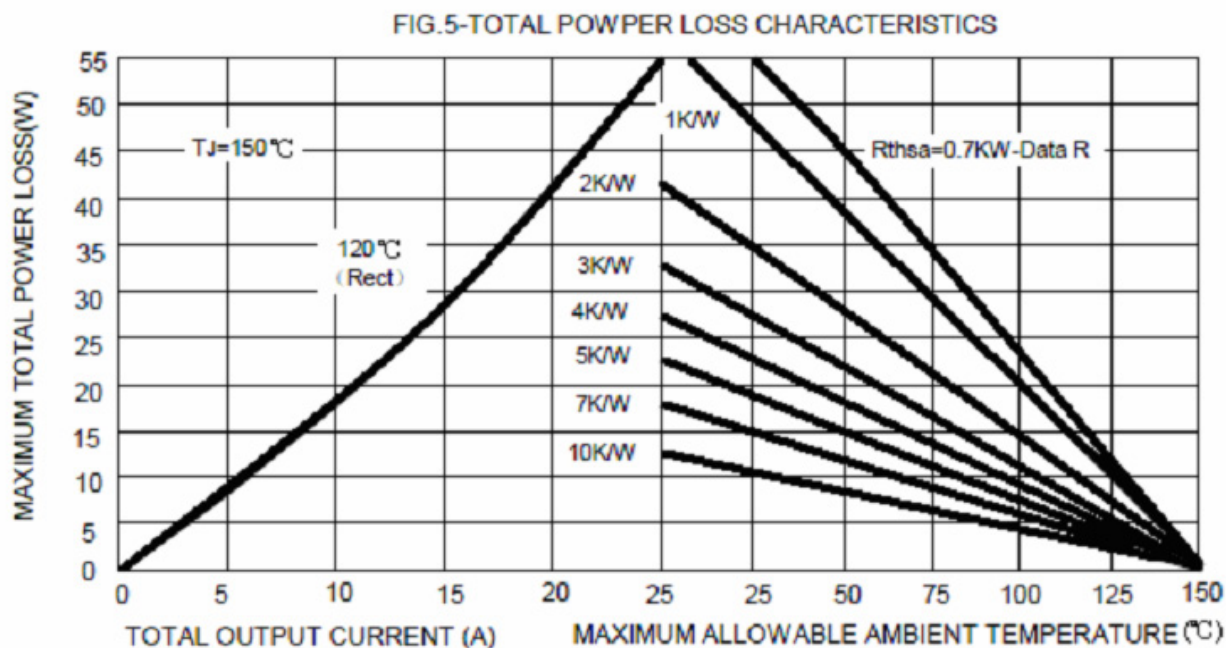
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Note: Specification are subject to change without notice. For more detail and update, please visit our website.