

SILICON/GLASS PASSIVATED THREE PHASE BRIDGE RECTIFIERS

Voltage Range 50 to 1600 Volts

Current 35 Amperes

FEATURES

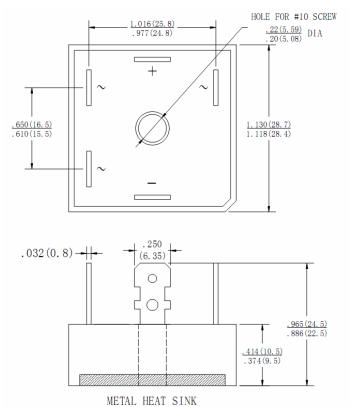
- **♦**Diffused Junction
- ◆Low Forward Voltage Drop
- ♦ High Current Capability
- ♦ High Reliability
- ◆High Surge Current Capability
- ◆Ideal for Printed Circuit Boards:

Mechanical Data

- ◆ Case:Epoxy Case with Heat Sink Interally

 Mounted in the Bridge Encapsulation
- ◆ Terminals:Plated Leads Soiderable per MIL-STD-202,Method 208
- ◆Polarity:As Marked on Body
- ◆Weight:20 grams(approx.)
- ◆ Mounting Position: Bolt Down on Heatsink With Silicone Thermal Compound Between Bridge and Mounting Surface for Maximum Heat Transfer Efficiency
- ♦ Mounting Torque:20 in lbs. Max
- ♦ Marking: Type Number

SKBPC



Dimensions in inches and (millimeters)

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
		35005	3501	3502	3504	3506	3508	3510	3512	3514	3516	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	1200	1400	1600	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	840	980	1120	٧
Maximum DC blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	1200	1400	1600	٧
Maximum Average Forward Rectified Current	I(AV)	35										А
@ T _C = 100°C	I(AV)											
Non-Repetitive Peak Forward Surge Current		500 475 420 400										A
(No Voltage Reapplied t=8.3ms at 60HZ)												
(No Voltage Reapplied t=10ms at 50HZ)	I_{FSM}											
(100% VRRM Reapplied t=8.3ms at 60HZ)												
(100% VRRM Reapplied t=10ms at 50HZ)												



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		/SBR	/SBR	/SBR	/SBR	/SBR	/SBR	/SBR	/SBR	/SBR	/SBR	UNITS	
		25005	2501	2502	2504	2506	2508	2510	2512	2514	25005		
I ² t Rating for fusing		1030 1130											
(No Voltage Reapplied t=8.3ms at 60HZ)													
(No Voltage Reapplied t=10ms at 50HZ)	$I^2 t$												
(100% VRRM Reapplied t=8.3ms at 60HZ)		730											
(100% VRRM Reapplied t=10ms at 50HZ)		800											
Forward Voltage (per element)	.,		4.40										
@T _J =25°ℂ,@ I _{FM} =40APK per single junction	V_{F}	1.19											
Peak Reverse Current (per leg) @T _J =25℃		10											
At Rated DC Blocking Voltage @T _J =125°C	I _R	5.0											
RMS Isolation Voltage from Case to Lead	V_{ISO}	2500									V		
Thermal Resistance Junction to Case at	D	1.16										K/W	
DC Operation per Bridge	$R_{\theta JC}$		1.10										
Thermal Resistance Case to Heatsink	В	0.2									K/W		
Mounting Surface, Smooth, Flat and Greased	$R_{\theta CS}$		U.Z										
Operating Temperature Range	TJ	-55 to +150									$^{\circ}\!\mathbb{C}$		
Storage Temperature Range	T _{STG}	-55 to +150								$^{\circ}\!\mathbb{C}$			

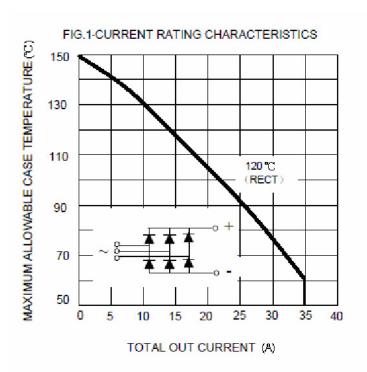


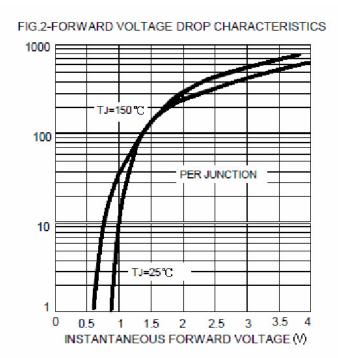
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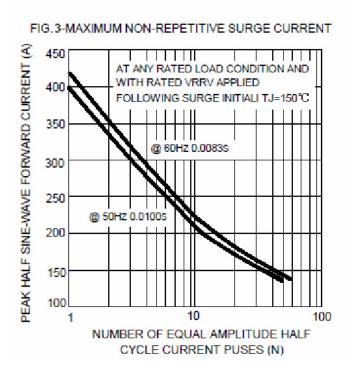
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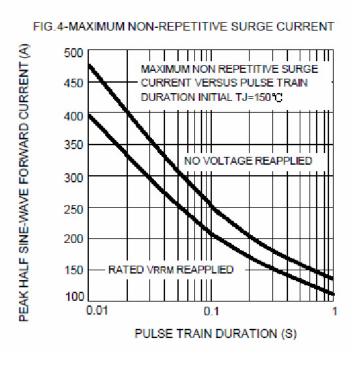
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RATING AND CHARACTERISTIC CURVES SKBPC35005 THRU SKBPC3516









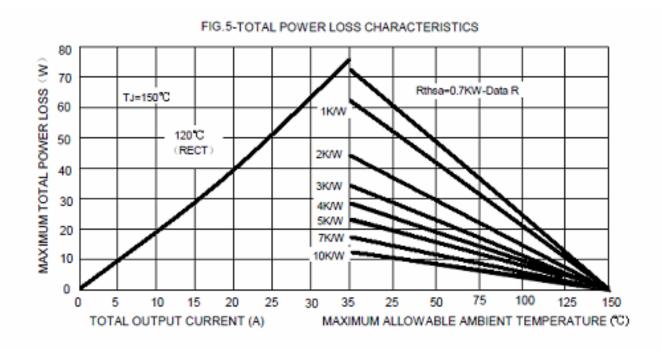


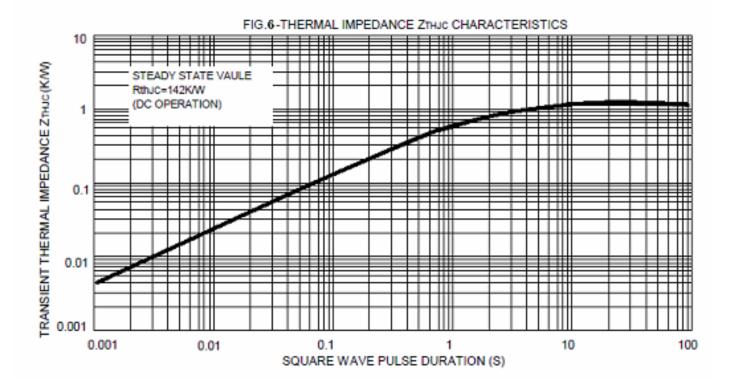
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Note: Specification are subject to change without notice. For more detail and update, please visit our website.