

Technical Data Data Sheet N0538, Rev. - Green Products

SKBPC25/35 BRIDGE RECTIFIER

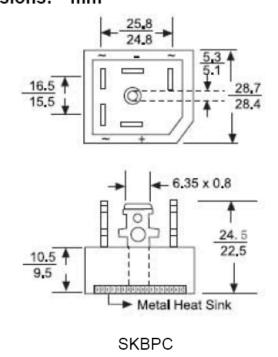
Features

- Diffused junction
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Ideal for printed circuit boards
- This is Pb-Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data

- Case: Epoxy case with heat sink interally mounted in the brige encapsulation
- Terminals:Plated leads solderable per MIL-STD-202,method 208
- Polarity: As marked on bady
- Weight: 2.0 grams(apprex.)
- Mounting position:Bolt down on heatsink with sillicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency.
- Marking: Part Name,SSG and Date Code

Mechanical Dimensions: mm



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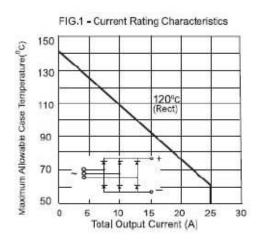
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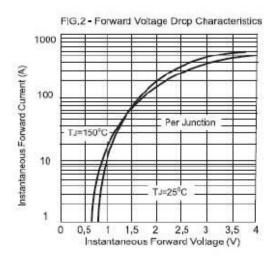
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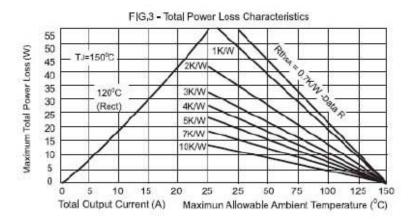
ata Sneet NU538, Rev	GOVERN CORRESPOND		5509474505TR	SHICOL MISSING	0-10 N							
MAXIMUM RATINGS AND ELECTR Rating at 25°C ambient temperature unless of Sing phase, half wave, 60Hz, resistive or induce	therwise s	pecifie	d.			rrent by	20%					
VOLTAGE RATINGS												
Type Number			-01	-02	-04	-06	-08	-10	-12	-14	-16	UNITS
Peak Reprtitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	1200	1400	1600	V
Peak Non-Repetitive Reverse Voltage	VRSM	75	150	275	500	725	900	1100	1300	1500	1700	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	840	980	1120	V
FORWARD CONDUCTION												
Type Number		SKBPC 25					SKBPC 35					UNITS
Maximum Average Forward Rectified Current@Tc = 100°C	IF(AV)	25					35					Α
Non-Repetitive Peak Forward Surge Current (No Voltage Reapplid t=8.3ms at 60Hz) (No Voltage Reapplid t=10ms at 50Hz) (100% VRRM Reapplid t=8.3ms at 60Hz) (100% VRRM Reapplid t=10ms at 50Hz)	İFSM	375 360 314 300					500 475 420 400					А
I ² t Rating for fusing (No Voltage Reapplid I=8.3ms at 60Hz) (No Voltage Reapplid I=10ms at 50Hz) (100% VRRM Reapplid t=8.3ms at 60Hz) (100% VRRM Reapplid t=10ms at 50Hz)	l²t	580 635 410 450					1030 1130 730 800					A ² S
Forward Voltage (per element) @TJ = 25°C,@IFM=40Apk per single junction	Vr	1,2					1,2					V
Peak Reverse Current (per leg) @TJ =25°C At Rated DC Blocking Voltage @TJ =125°C	IR	10 5.0								uA mA		
RMS Isolation Voltage from Case to Lead	Viso	2500								V		
THERMAL CHARACTERISTICS		_										
Operating Temperature Range	T.J	-40 to + 125								°C		
Storage Temperature Range	Тэто	-40 to					+ 150					°C
Thermal Resistance Junction to Case at DC Operation per Bridge	Reuc	1,42					1,16					K/W
Thermal Resistance Case to Heatsink Mounting Surface, Smooth, Flat and Greased	Recs	0,2									K/W	

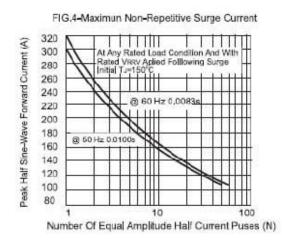


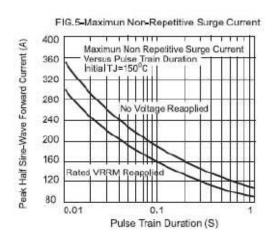
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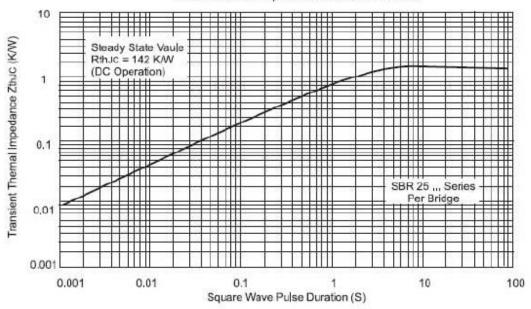
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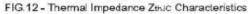
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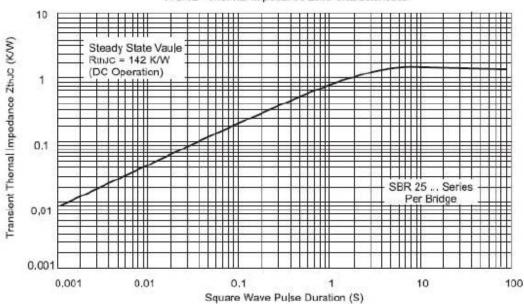


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FIG.11 - Thermal Impedance Zthuc Characteristics







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