

## THREE-PHASE BRIDGE RECTIFIER

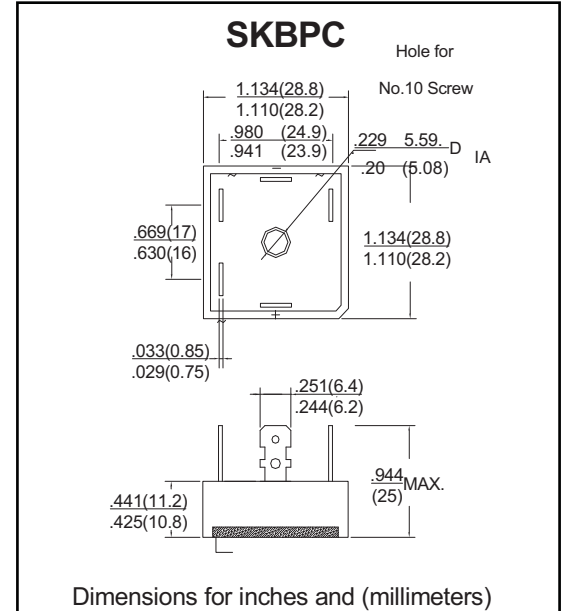
### FEATURES

- $I_o$  50A
- $V_{RRM}$  400V~1600V
- Glass passivated chip
- High surge forward current capability

### APPLICATIONS

- General purpose 3 phase Bridge rectifier applications

### Outline Dimensions and Mark



### LIMITING VALUES (ABSOLUTE MAXIMUM RATING)

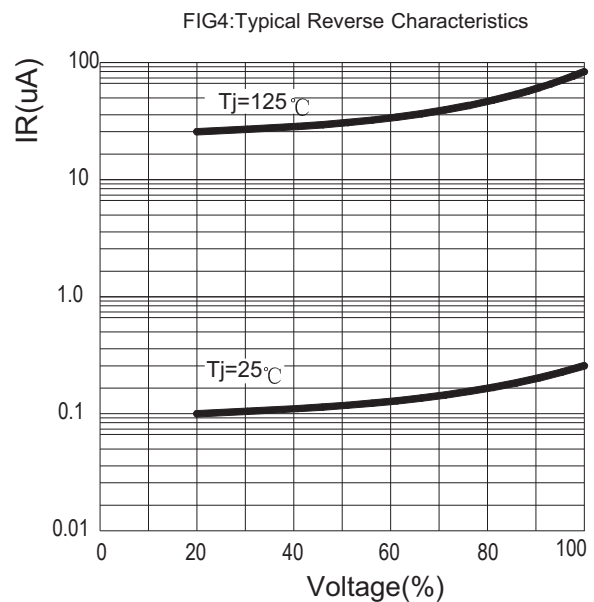
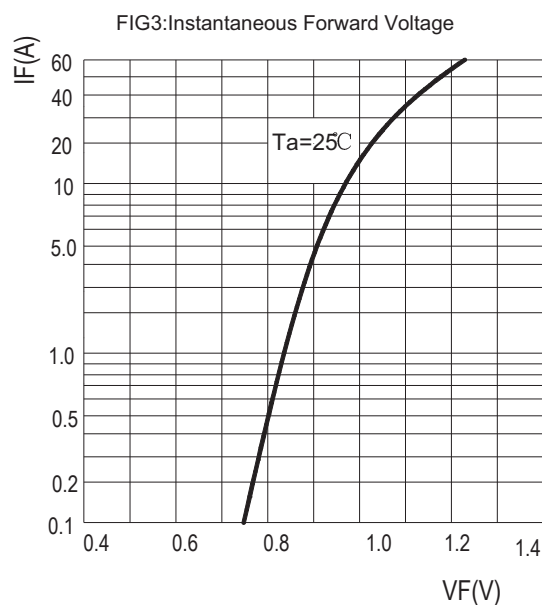
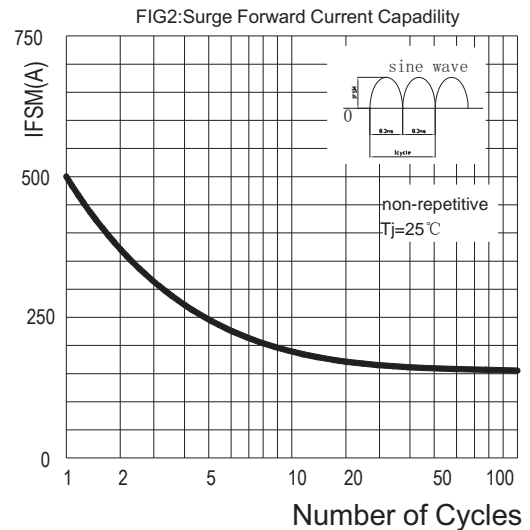
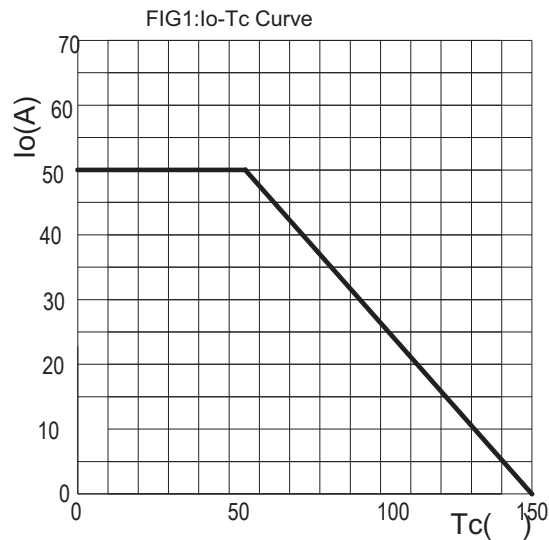
Item	Symbol	Unit	Conditions	SKBPC50						
				04	06	08	10	12	14	16
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		400	600	800	1000	1200	1400	1600
Average Rectified Output Current	$I_o$	A	60Hz sine wave, R-load, with heatsink $T_a=55^{\circ}C$	50						
Surge(Non-repetitive)Forward Current	$I_{FSM}$	A	60Hz sine wave, 1 cycle, $T_j=25^{\circ}C$	500						
Current Squared Time	$I^2t$	A <sup>2</sup> S	1ms≤t<8.3ms $T_j=25^{\circ}C$ , Rating of per diode	1040						
Storage Temperature	$T_{stg}$	°C		-40 ~+150						
Junction Temperature	$T_j$	°C		-40~+150						
Dielectric Strength	$V_{dis}$	KV	Terminals to case,AC 1 minute	2.5						

### Electrical Characteristics ( $T_a=25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	Max
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=17A$ , Pulse measurement, Rating of per diode	1.2
Peak Reverse Current	$I_{RRM}$	μ A	$V_{RM}=V_{RRM}$ , Pulse measurement, Rating of per diode	10
Thermal Resistance	$R_{\theta J-C}$	°C/W	Between junction and case with heatsink	0.9

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### CHARACTERISTICS(TYPICAL)



### Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.