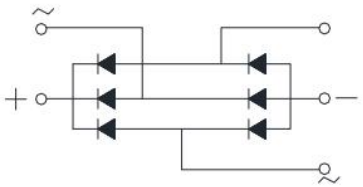
SKD35/16

Power Bridge Rectifiers



FEATURES

- High surge current capability
- Easy chassis mounting
- High voltage ratings up to 1600V
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Battery charges
- DC motor drives
- Various rectifiers

ABSOLUTE MAXIMUM RATINGS

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM}	Repetitive Peak Reverse Voltage	1600	V
I_O	Average Rectified Output Current @60Hz sine wave, R-load, With heatsink Tc=55℃	35	A
I_{FSM}	Surge(Non-repetitive)Forward Current @60HZ Half- sine Wave, 1 cycle, Ta=25℃	425	A
I^2t	Current Squared Time @1ms≤t<8.3ms Tj=25℃, Rating of per diode	750	A^2S
T_J	Junction Temperature	-55~150	℃
T_{stg}	Storage Temperature Range	-55~150	℃
V_{dis}	Dielectric Strength, Terminals to case，AC 1 minute	2.5	KV

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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance, Junction to Case	1.35	℃/W

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_{FM}	Forward Voltage drop	I_{FM}= 17.5A	1.2	V
I_{RRM}	Repetitive Peak Reverse Current	$V_R = V_{RRM}$	10	uA

■ Characteristics (Typical)

FIG1:Io-Tc Curve

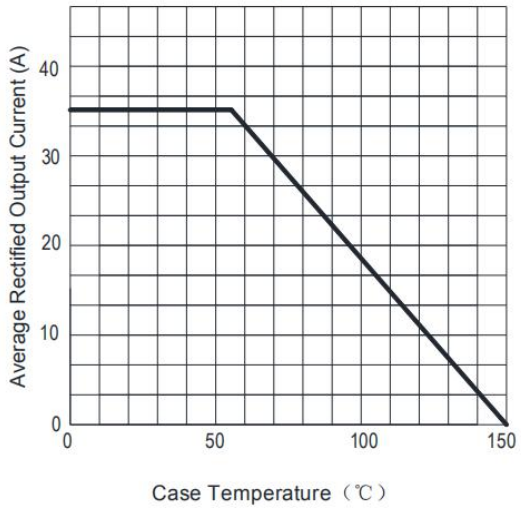


FIG2:Surge Forward Current Capability

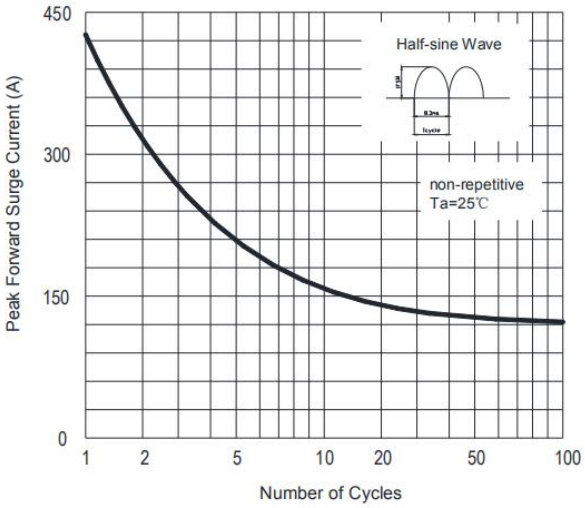


FIG3:Instantaneous Forward Voltage

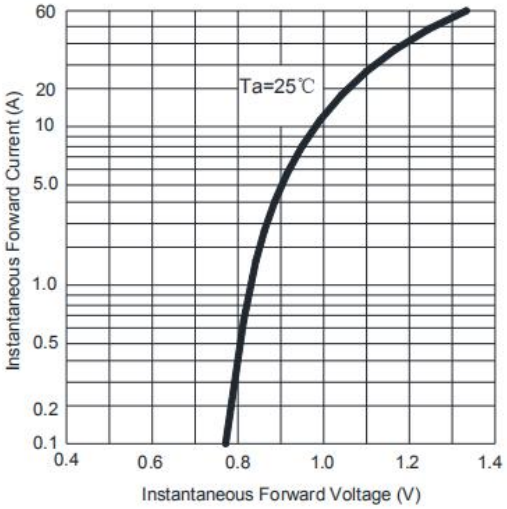
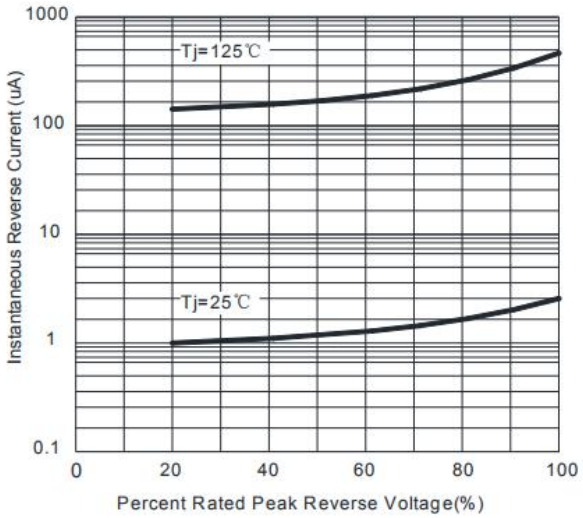


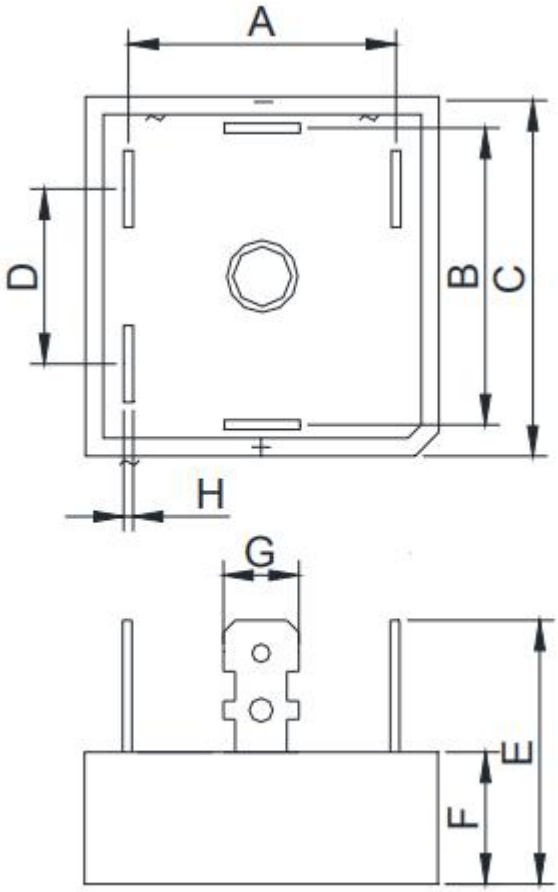
FIG4:Typical Reverse Characteristics



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PACKAGE OUTLINE

Dimensions in mm (1mm = 0.0394“)



DIM	mm	
	MIN	MAX
A	23.1	24.1
B	23.1	24.1
C	28.2	28.8
D	16	17
E	/	25
F	10.8	11.2
G	6.2	6.4
H	0.75	0.85

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