

SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 45 Volts Forward Current - 30Amperes

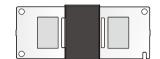
Features

- · Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- · Metal silicon junction, majority carrier conduction
- · Guard ring for overvoltage protection
- · Low power loss ,high efficiency
- · High current capability ,Low forward voltage drop
- · Single rectifier construction
- · High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 260° C/10 seconds, 0.25° (6.35mm) from case
- · Component in accordance to RoHS 2015/863/EU

Mechanical Data

- · Case: PV002 molded plastic body
- · Terminals: Solderable per MIL-STD-202, method 208
- · Polarity: As marked
- · Mounting Position: Any

PV002



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

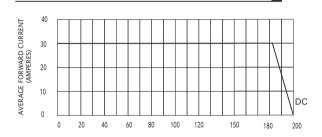
(Ratings at 25° C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

Parameter	Symbols	Value	Units
Maximum repetitive peak reverse voltage	Vrrm	45	Volts
Maximum RMS voltage	Vrms	31.5	Volts
Maximum DC blocking voltage	VDC	45	Volts
Maximum average forward rectified current See Fig. 1	l(AV)	30.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	400	Amps
Maximum instantaneous forward voltage at 30.0 A	VF	0.53	Volts
Maximum instantaneous reverse _{Tc} =25°C	- IR	200	μА
current at rated DC blocking voltage(Note 1) Tc=100°C		10	mA
Typical thermal resistance (Note 2)	R_{θ} JC	1.0	°C/W
Storage temperature range	Tstg	-55 to+200	℃
Operating junction temperature range in DC forward model	TJ	-55 to+200	°C

Notes: 1.Pulse test: 300 μs pulse width,1% duty cycle 2.Thermal resistance from junction to case

RATINGS AND CHARACTERISTIC CURVES MK3045B

FIG.1-FORWARD CURRENT DERATING CURVE



CASE TEMPERATURE (°C)
FIG.3-TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS

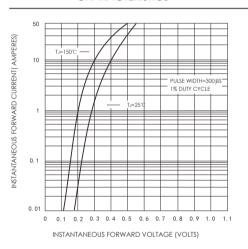


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

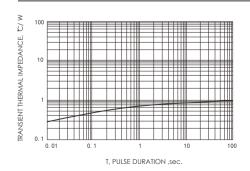


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

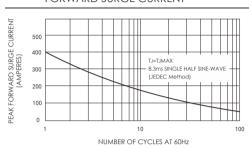
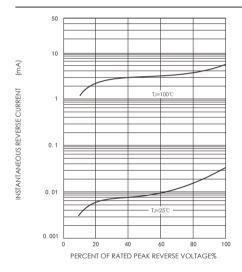
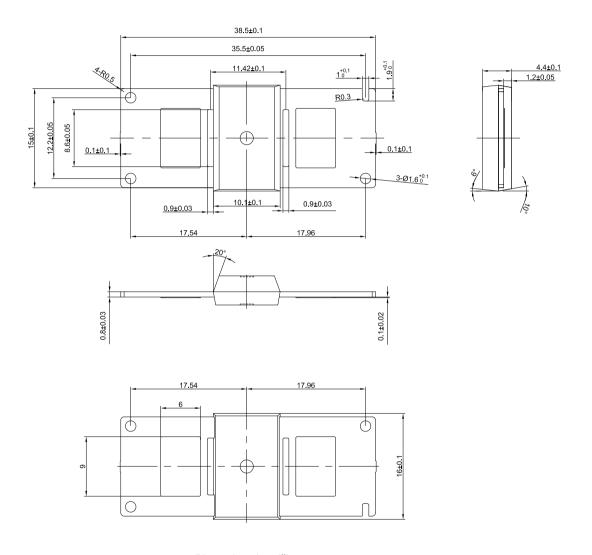


FIG.4-TYPICAL REVERSE CHARACTERISTICS





Dimensions in millimeters

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