

SK1020P~SK10200P

SCHOTTKY BARRIER RECTIFIERS

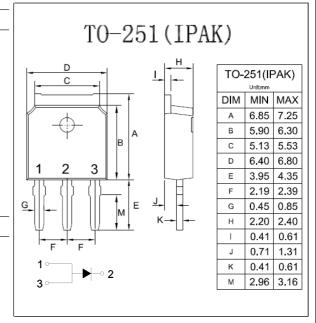
VOLTAGE	20 to 200 Volts					
CURRENT	10 Amperes					

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For through hole applications
- · Low profile package
- · Built-in strain relief
- Low power loss, High efficiency
- · High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Lead free in comply with EU RoHS

MECHANICAL DATA

- Case: TO-251 molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marking



MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	SK 1020P	SK 1040P	SK 1045P	SK 1050P	SK 1060P	SK 1080P	SK 10100P	SK 10150P	SK 10200P	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	31.5	35	42	56	70	105	140	٧
Maximum DC Blocking Voltage	V _{DC}	20	40	45	50	60	80	100	150	200	٧
Maximum Average Forward (See Figure 1)	I _{F(AV)}	10									А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	150									А
Maximum Forward Voltage at 10A per leg	V _F	0.55			0.	70	0.85		0.90	0.92	V
Maximum DC Reverse Current at T _J =25°C Rated DC Blocking Voltag T _J =100°C	I _R	0.2 20									mA
Typical Thermal Resistance Note 1	R _{esc}	25									°C / W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150 -55 to +175								°C	

Note 1: Mounted on FR-4 PCB Copper, minimum recommended pad layout



RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

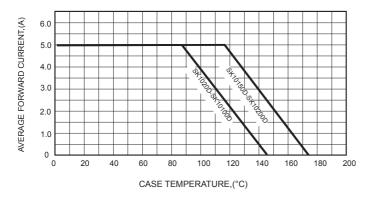


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

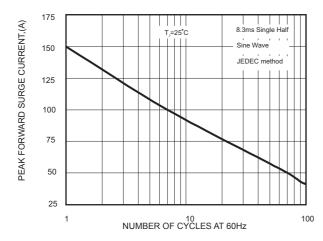


FIG.2-TYPICAL FORWARD CHARACTERISTICS

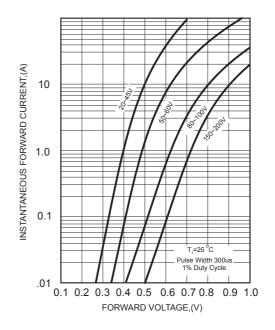
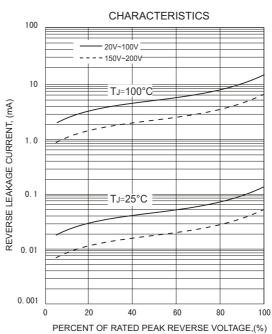


FIG.4- TYPICAL REVERSE





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