

SK31SVF - SK34SVF

SCHOTTKY BARRIER RECTIFIER DIODES

PRV : 15 - 40 Volts

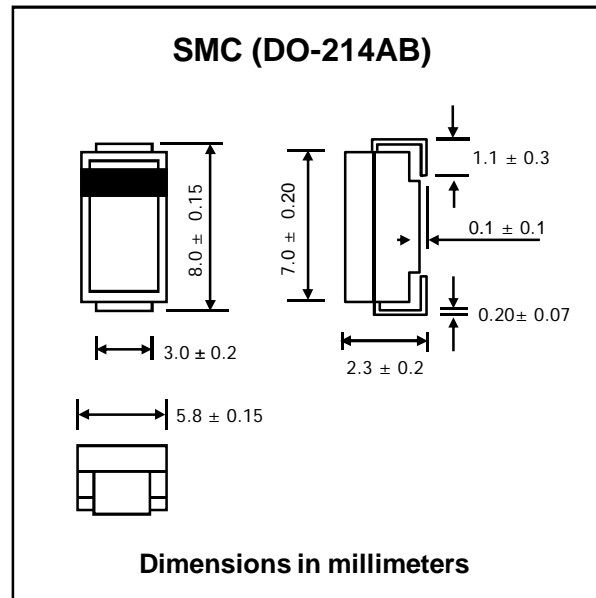
I_o : 3.0 Amperes

FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * High efficiency
- * Low power loss
- * Low forward voltage drop
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : SMC Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.21 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

RATING	SYMBOL	SK31SVF	SK32SVF	SK33SVF	SK34SVF	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	15	20	30	40	V
Maximum RMS Voltage	V _{RMS}	11	14	21	28	V
Maximum DC Blocking Voltage	V _{DC}	15	20	30	40	V
Maximum Average Forward Current 0.375", 9.5mm Lead Length See Fig.1	I _{F(AV)}	3.0				A
Maximum Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	80				A
Maximum Forward Voltage at I _F = 3.0 A	V _F	0.38		0.40		V
Typical Forward Voltage at I _F = 3.0 A	V _F	0.36				V
Maximum Reverse Current at Ta = 25 °C	I _R	0.5				mA
Rated DC Blocking Voltage (Note 1) Ta = 100 °C	I _{R(H)}	20				mA
Junction Temperature Range	T _J	- 65 to + 125				°C
Storage Temperature Range	T _{STG}	- 65 to + 150				°C

Notes :

(1) Pulse Test : Pulse Width = 300 μs, Duty Cycle = 2%



RATING AND CHARACTERISTIC CURVES (SK31SVF - SK34SVF)

FIG.1 - FORWARD CURRENT DERATING CURVE

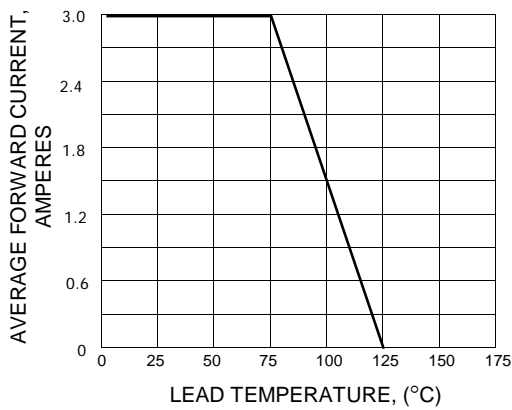


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

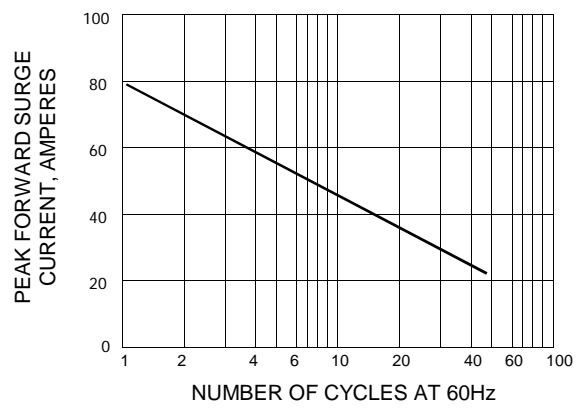


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

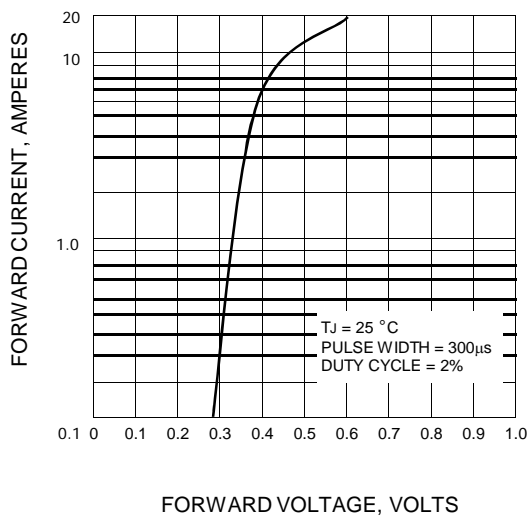


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

