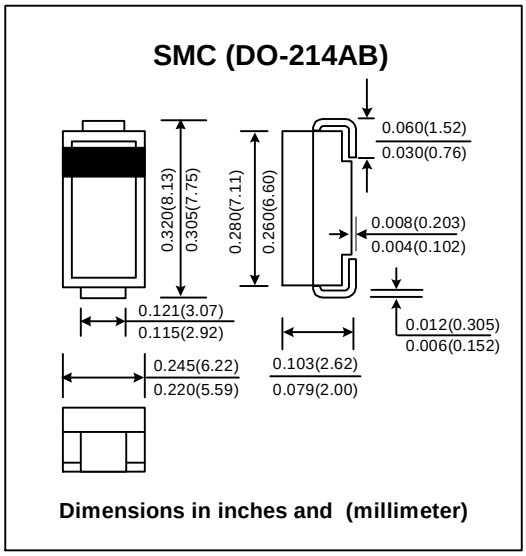
Certificate Number: Q10561

Certificate Number: E17276

SKN0 - SKN2

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

PRV : 20 - 40 Volts
Io : 3.0 Ampere



FEATURES :

* High current capability
* High surge current capability
* High reliability
* High efficiency
* Low power loss
* Low cost
* 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	SKN0	SKN1	SKN2	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	V
Maximum RMS Voltage	V_{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	V
Maximum Average Forward Current T_L = 95 °C	$I_{F(AV)}$	3.0			A
Maximum Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC Method) T_L = 75°C	I_{FSM}	80			A
Maximum Forward Voltage at I_F = 3.0 A (Note 1)	V_F	0.475	0.500	0.525	V
Maximum Reverse Current at Ta = 25 °C	I_R	2.0			mA
Rated DC Blocking Voltage (Note 1) Ta = 100 °C	$I_{R(H)}$	20			mA
Typical Thermal Resistance	RθJL	20			°C/W
Junction Temperature Range	T_J	- 65 to + 125			°C
Storage Temperature Range	T_{STG}	- 65 to + 125			°C

Note :

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

RATING AND CHARACTERISTIC CURVES (SKN0 - SKN2)

FIG.1 - FORWARD CURRENT DERATING CURVE

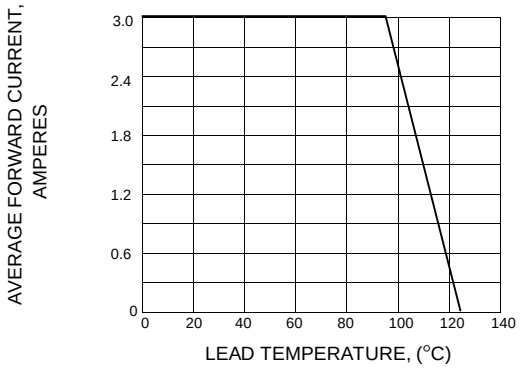


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

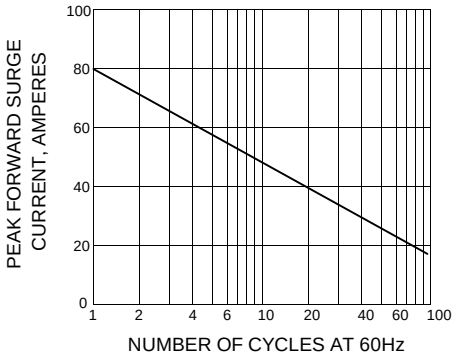


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

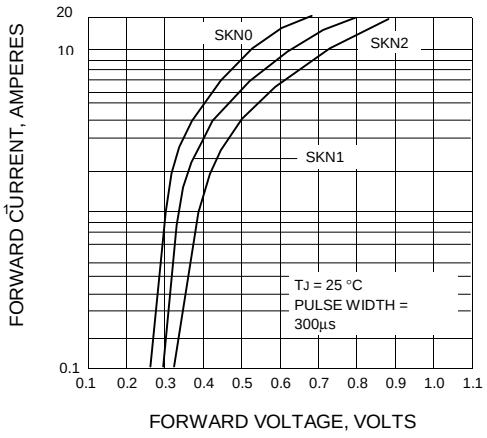


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

