



Certificate Number: Q10561

Certificate Number: E17276

SKN7 - SKN9

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

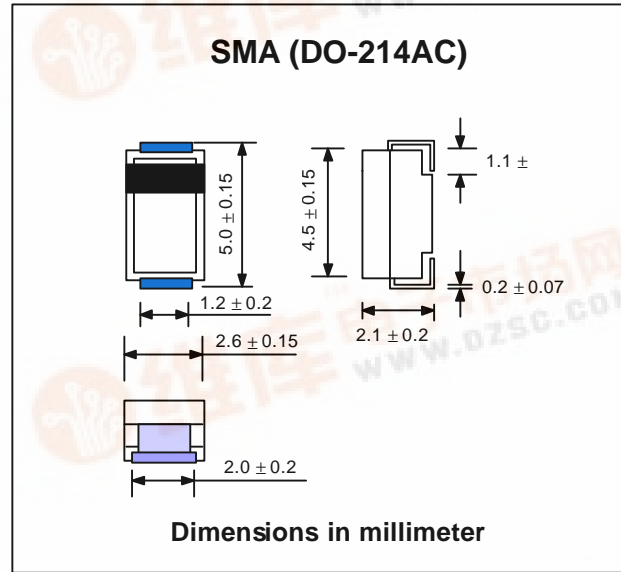
PRV : 20 - 40 Volts
Io : 1.0 Ampere

FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * High efficiency
- * Low power loss
- * Low cost
- * Low forward voltage drop

MECHANICAL DATA :

- * Case : SMA Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.064 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	SKN7	SKN8	SKN9	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	Volts
Maximum Average Forward Current $T_L = 90\text{ }^{\circ}\text{C}$	$I_{F(AV)}$	1.0			Amp.
Peak Forward Surge Current, 8.3ms single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	25			Amps.
Maximum Forward Voltage at $I_F = 1.0\text{ Amp.}$	V_F	0.45	0.55	0.6	Volt.
Maximum Reverse Current $T_a = 25\text{ }^{\circ}\text{C}$ at Rated DC Blocking Voltage (Note 1) $T_a = 100\text{ }^{\circ}\text{C}$	I_R	1.0			mA
	$I_{R(H)}$	10			mA
Typical Junction Capacitance (Note 2)	C_J	110			pF
Junction Temperature Range	T_J	- 65 to + 125			$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	- 65 to + 125			$^{\circ}\text{C}$

Notes :

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



RATING AND CHARACTERISTIC CURVES (SKN7 - SKN9)

FIG.1 - FORWARD CURRENT DERATING CURVE

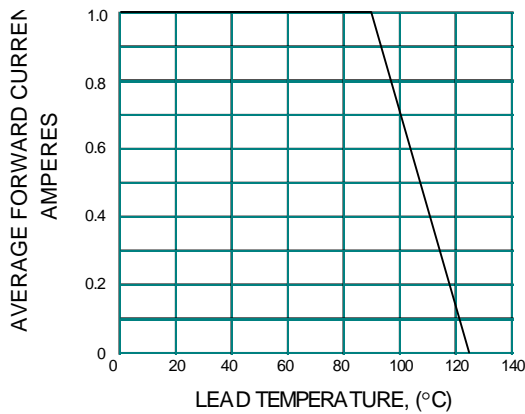


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

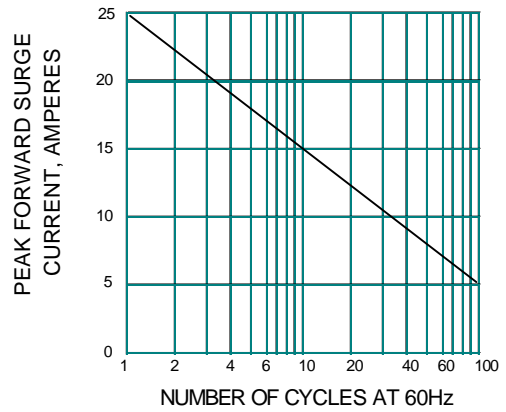


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

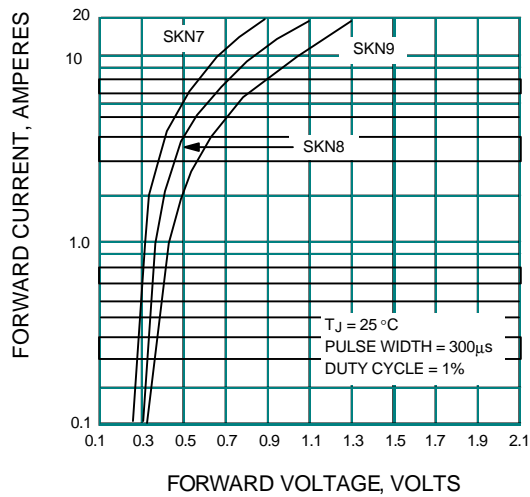


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

