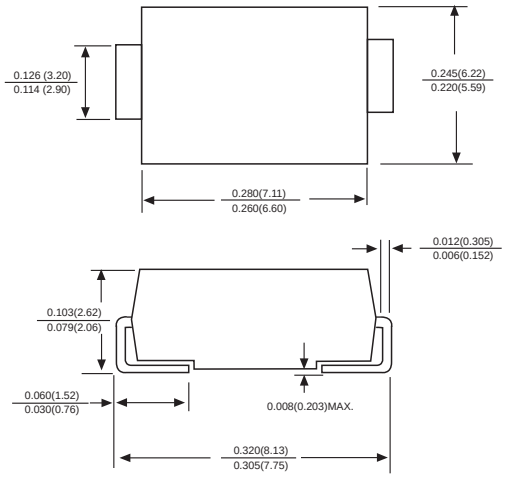
SK(S)82~SK(S)820
8.0Amp Schottky Barrier Rectifiers

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C,0.25 "(6.35mm) from case for 10 seconds

SMC/DO-214AB



Dimensions in inches and (millimeters)

Mechanical Data

Case: JEDEC DO-214AB molded plastic body
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight : 0.007 ounce, 0.25 grams

Maximum Ratings And Electrical Characteristics

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

	SYMBOLS	SK82 SS82	SK83 SS83	SK84 SS84	SK85 SS85	SK86 SS86	SK88 SS88	SK810 SS810	SK815 SS815	SK820 SS820	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	150	VOLTS
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	VOLTS
Maximum average forward rectified current at T_L(see fig.1)	$I_{(AV)}$	8.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	180.0									Amps
Maximum instantaneous forward voltage at 8.0A	V_F	0.55			0.70		0.85			0.95	Volts
Maximum DC reverse current T_A=25℃	I_R	0.5							0.2		mA
at rated DC blocking voltage T_A=100℃		20					10		2.0		
Typical junction capacitance (NOTE 1)	C_J	220									pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	40.0									°C/W
Operating junction temperature range	T_J,	-65 to +125					-65 to +150				°C
Storage temperature range	T_{STG}	-65 to +150									°C

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2.P.C.B. mounted with 0.2x0.2”(5.0x5.0mm) copper pad areas