

SK10L25

SCHOTTKY BARRIER RECTIFIER DIODE

PRV : 25 Volts
I_o : 10 Amperes

FEATURES :

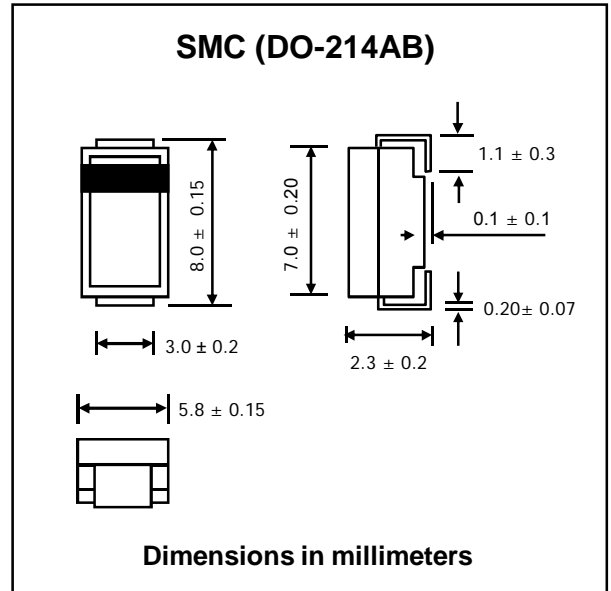
- * Extremely low switching losses
- * High surge current capability
- * High reliability
- * Low forward voltage drop
- * Pb / RoHS Free

APPLICATIONS :

- * Rectifiers in switch mode power supplies(SMPS)
- * Free wheeling diode in low voltage converters

MECHANICAL DATA :

- * Case : SMC Molded plastic
- * Epoxy : UL94V-0 rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Mounting position : Any
- * Weight : 0.21 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	25	V
Maximum peak reverse voltage	V _{RSM}	25	V
Maximum average forward current at T _C =140°C, rectangular, d=0.5	I _{F(AV)}	10	A
Peak Forward Surg Current, 10 ms single half sine-wave superimposed on rated load	I _{FSM}	200	A
Maximum forward voltage at I _F =6 A, T _J = 25 °C I _F =6 A, T _J = 125 °C I _F = 10 A, T _J = 25 °C I _F = 10 A, T _J = 125 °C	V _F	0.40 0.30 0.45 0.35	V
Maximum reverse current at T _J = 25 °C	I _R	1.0	mA
Rated DC blocking voltage (Note 1) T _J = 125 °C	I _{R(H)}	40	mA
Thermal resistance junction to case	R _{θJC}	8.0	°C/W
Operating temperature range	T _J	- 55 to + 150	°C
Storage temperature range	T _{STG}	- 55 to + 150	°C

Note : (1) Pulse Width = 5 ms , Duty Cycle < 2%