

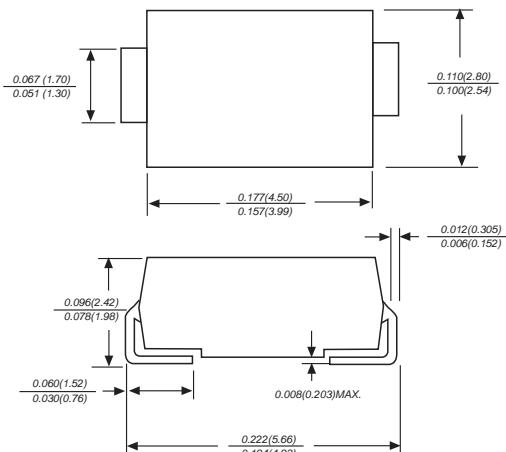


SK2150 THRU SK2200

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 150 to 200 Volts Forward Current - 2.0 Amperes

DO-214AC/SMA



Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed:
250°C/10 seconds, 0.375" (9.5mm) lead length,
5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body

Terminals: leads solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.002 ounce, 0.07 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

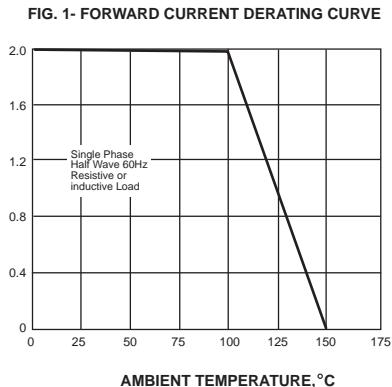
Catalog Number	SYMBOLS	SK2150	SK2200	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	150	200	VOLTS
Maximum RMS voltage	V _{RMS}	105	140	VOLTS
Maximum DC blocking voltage	V _{DC}	150	200	VOLTS
Maximum average forward rectified current 0.375" (9.5mm) lead length(see fig.1)	I _(AV)	2.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50.0		Amps
Maximum instantaneous forward voltage at 2.0A	V _F	0.85	0.95	Volts
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=100°C	I _R	0.2	2.0	mA
Typical junction capacitance (NOTE 1)	C _J	80		pF
Typical thermal resistance (NOTE 2)	R _{θJA}	88		°C/W
Operating junction temperature range	T _J	-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.

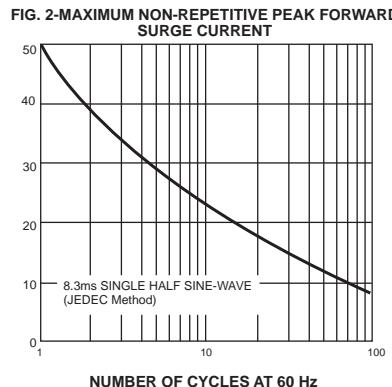
2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES SK2150 THRU SK2200

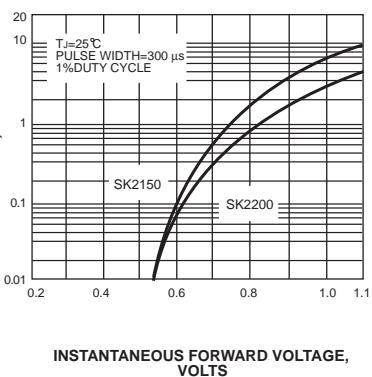
AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



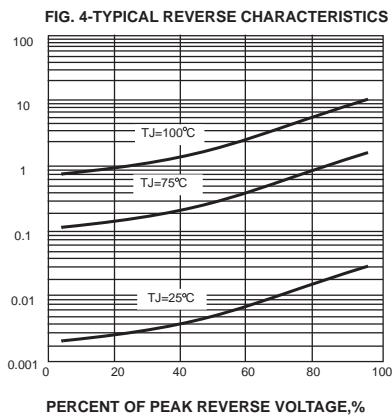
PEAK FORWARD SURGE CURRENT,
AMPERES



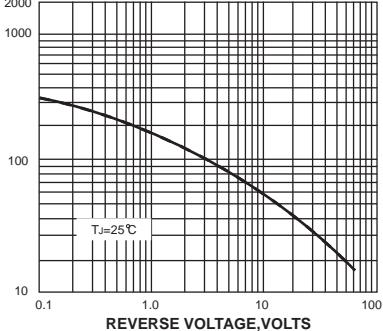
INSTANTANEOUS FORWARD
CURRENT, AMPERES



INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES



JUNCTION CAPACITANCE, pF



TRANSIENT THERMAL IMPEDANCE,
°C/W

