ELECTRONICS INDUSTRY (USA) CO., LTD.

103 MOO 4, LATKRABANG EXPORT PROCESSING ZONE, LATKRABANG, BANGKOK 10520, THAILAND
TEL. : (66 2) 326-0102, 739-4580 FAX. : (66 2) 326-0933 E-mail : eicfirst @ iname.com http. : // www.eicsemi.com

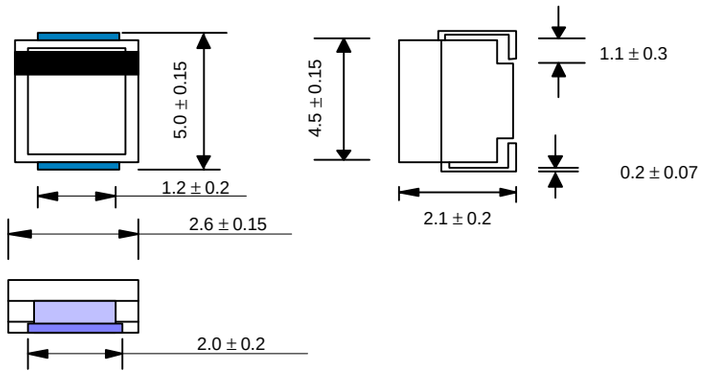
Certificate Number: Q10561 Certificate Number: E17276

SKT2S - SKTBS

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

PRV : 20 - 100 Volts
Io : 2.5 Amperes

SMA (DO-214AC)



Dimensions in millimeter

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 (DO-214AC) 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	SKT2S	SKT3S	SKT4S	SKT5S	SKT6S	SKT7S	SKT8S	SKT9S	SK TBS	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	70	80	90	100	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	49	56	63	70	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	70	80	90	100	Volts
Maximum Average Forward Current See Fig.1	$I_{F(AV)}$	2.5									Amps.
Peak Forward Surge Current, 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I_{FSM}	75									Amps.
Maximum Forward Voltage at I_F = 2.5 Amps. (Note 1)	V_F	0.5			0.74			0.79			Volt.
Maximum Reverse Current at Rated DC Blocking Voltage (Note 1)	I_R	0.5									mA
Junction Temperature Range	T_J	- 65 to + 125			- 65 to + 150						°C
Storage Temperature Range	T_{STG}	- 65 to + 150									°C

Notes :

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

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RATING AND CHARACTERISTIC CURVES (SKT2S - SKTBS)

FIG.1 - FORWARD CURRENT DERATING CURVE

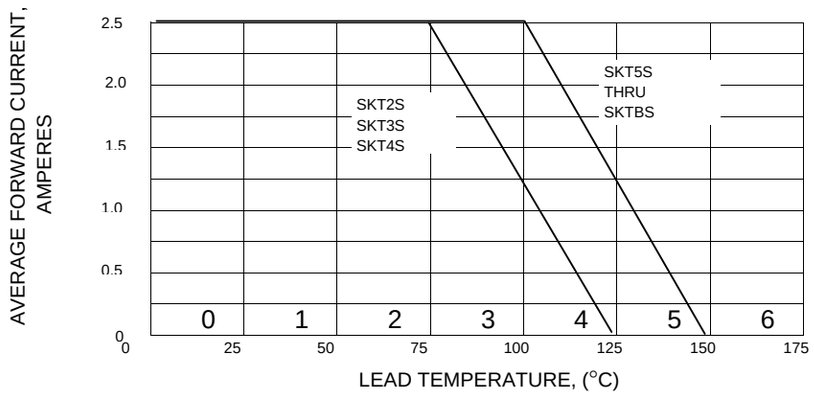

FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

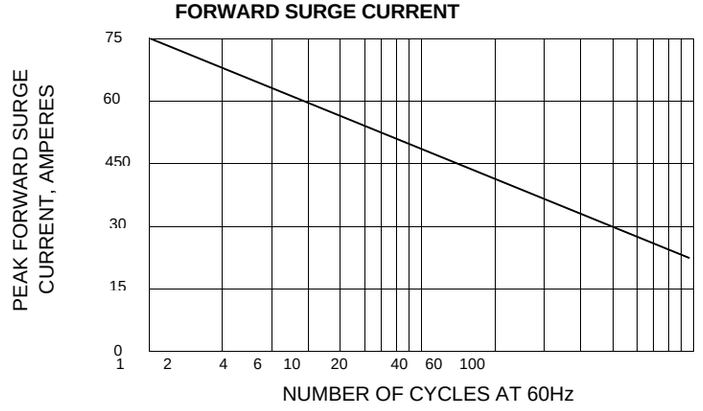

FIG.3 - TYPICAL FORWARD CHARACTERISTICS

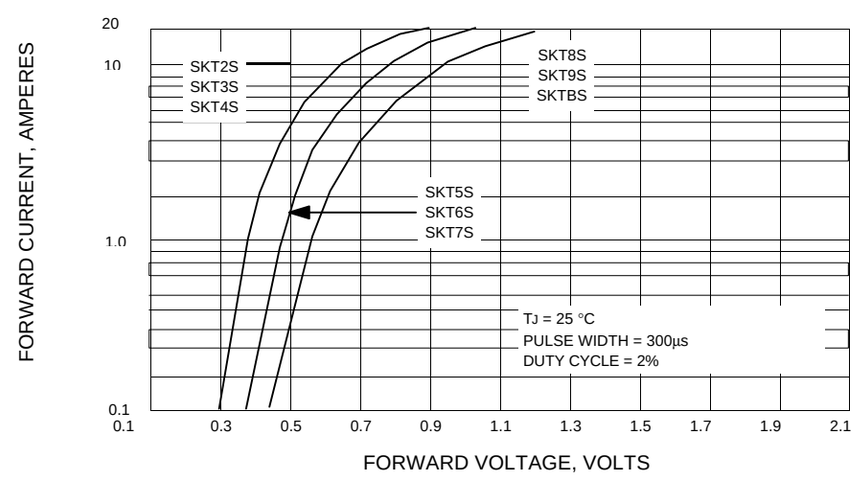

FIG.4 - TYPICAL REVERSE CHARACTERISTICS