Elektronische Bauelemente

SCS0530V-C

0.5A, 30V

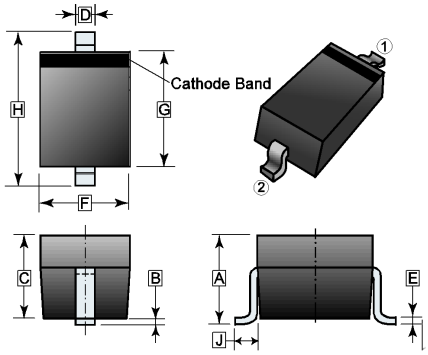
Schottky Barrier Rectifiers

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

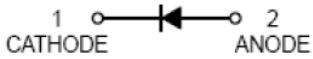
FEATURES

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering: 250℃ for 10 Seconds at Term inals
- Low Forward Voltage

SOD-323



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	1.05 REF.		F	1.15	1.45
B	0.20 REF.		G	1.6	1.9
C	0.80	1.00	H	2.30	2.75
D	0.25	0.40	J	0.475 REF	
E	0.080	0.20			



MECHANICAL DATA

- Case: Molded Plastic
- Epoxy: UL 94V-0 Rate Flame Retardant
- Lead: Solderable Per MIL-STD-202, Method 208 Guaranteed
- Polarity: Color Band Denotes Cathode End
- Mounting Position: Any

MARKING

SE

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323	3K	7 inch

ORDER INFORMATION

Part Number	Type
SCS0530V-C	Lead (Pb)-free and Halogen-free

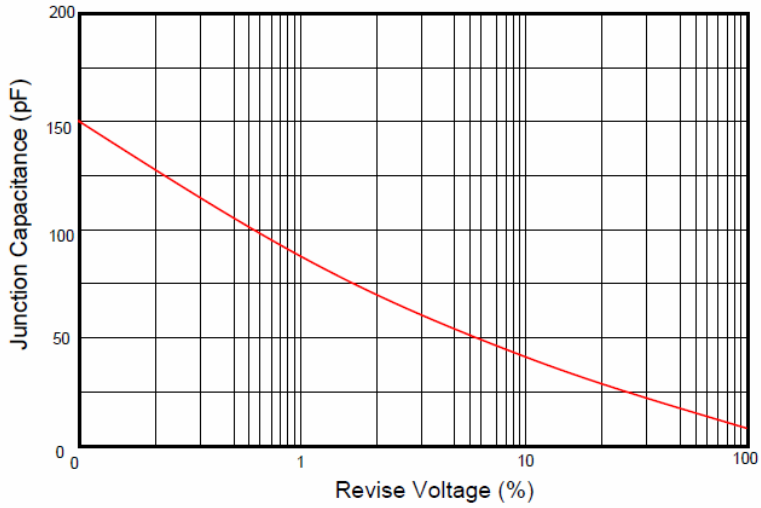
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25℃ unless otherwise specified.)

Parameter		Symbol	Ratings	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	30	V
Working Peak Reverse Voltage		V_{RWM}	30	V
Maximum DC Blocking Voltage		V_R	30	V
Average Forward Current @T_J=25℃		$I_{F(AV)}$	0.5	A
Peak Forward Current @8.3ms Half Sine		I_{FSM}	10	A
Maximum Instantaneous Forward Voltage @I_{FM}=0.5A	T_A=25℃	V_F	0.5	V
	T_A=125℃		0.38	
Maximum DC Reverse Current @Rated DC Blocking Voltage	T_J=25℃	I_R	0.1	mA
	T_J=125℃		5	
Typical Junction Capacitance [1]		C_J	160	pF
Typical Thermal Resistance from Junction-Ambient [2]		$R_{\theta JA}$	488	℃/W
Operating and Storage Temperature Range		T_J, T_{STG}	-55~150	℃

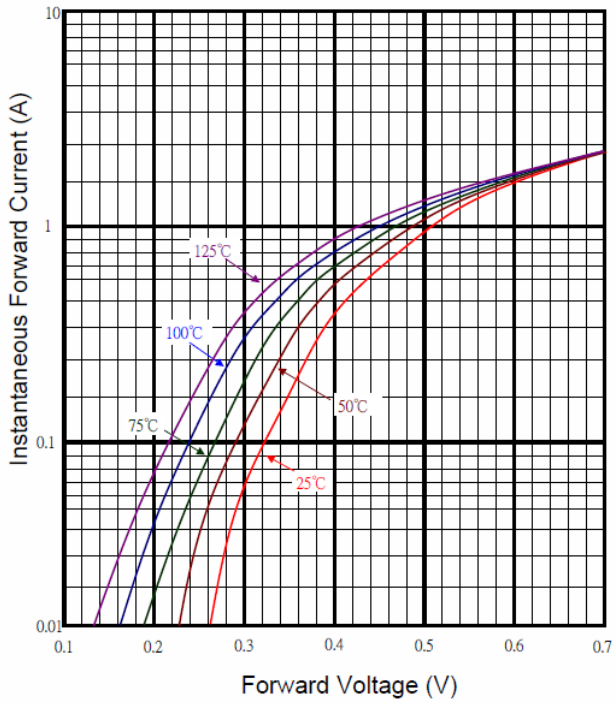
Notes:
1. Measured at 1MHZ and applied reverse of 0V DC.
2. FR-4 PCB, 2oz. 0.65mm×1.35mm copper pad.

RATINGS AND CHARACTERISTIC CURVES

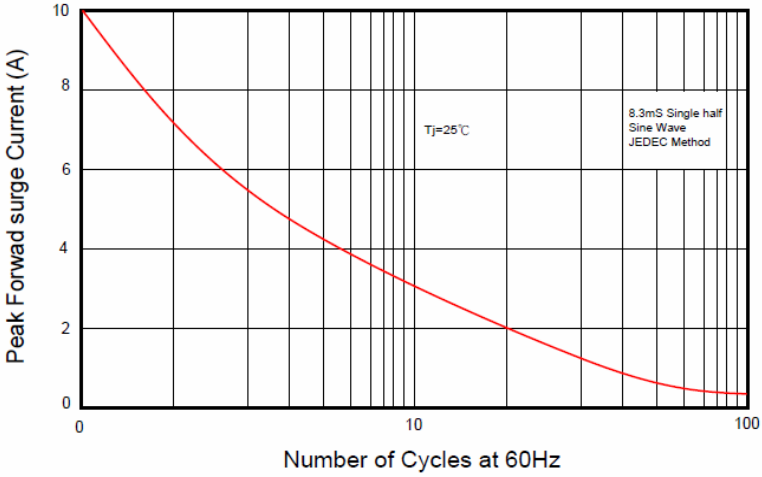
Typical Junction Capacitance



Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic