



## Data Sheet

Customer :

Product : Small Signal Schottky Diode-Standard

Part No.: SKS22C / SKS24C / SKS26C

Issued Date: 25-Mar-11

Edition : REV.A



VIKING TECH CORPORATION  
光頓科技股份有限公司

No.70, Kuanfu N. Rad.,  
Hsin Chu Industrial Park,  
Hukou Hsiang, Hsin Chu Hsien,  
303, Taiwan

TEL:886-3-5972931  
FAX:886-3-5972935•886-3-5973494  
E-mail:sales@viking.com.tw

VIKING TECH CORPORATION KAOHSIUNG BRANCH  
光頓科技股份有限公司高雄分公司

No.248-3, Sin-Sheng Rd., Cian-Jhen Dist., Kaohsiung,  
806, Taiwan

TEL:886-7-8217999  
FAX:886-7-8228229  
E-mail:sales@viking.com.tw

WUXI TMTEC CO., LTD.  
無錫泰銘電子有限公司

No.1A,(Xixia Road),Machinery & Industry Park,  
National Hi-Tech Industrial Development Zone of  
Wuxi, Wuxi, Jiangsu Province, China  
Zip Code:214028

TEL:86-510-85203339  
FAX:86-510-85203667•86-510-85203977  
E-mail:wuxisales@tmtec.com.tw

Produced by (QC)	Checked (QC)	Approved by (QC)	Prepared by (Sales)	Accepted by (Customer)
25-Mar-11	25-Mar-11	25-Mar-11	25-Mar-11	
<b>Kris</b>	<b>Ann</b>	<b>J.C Liu</b>		



## 2 Amperes Surface Mount Schottky Barrier Rectifiers

### Voltage : 20 to 60Volts

#### Features

- Low profile surface mounted application in order to optimize board space
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- High surge capability
- Guardring for overvoltage protection
- Ultra high-speed switching
- Silicon epitaxial planar chip, metal silicon junction
- Lead-free parts meet environmental standards of MIL-STD-19500/228
- Halogen free



#### Mechanical Data

**Epoxy** : UL94-V0 rated flame retardant

**Case** : Molded Plastic, DO-214AB/SMC

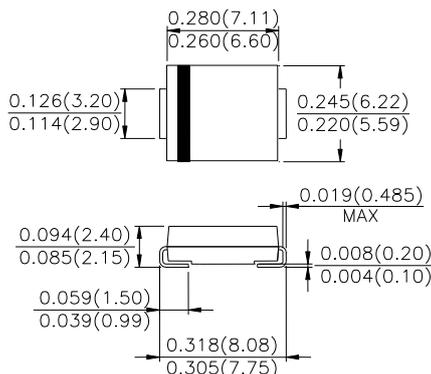
**Terminals** : Solder plated, Solderable per MIL-STD-750, Method 2026

**Polarity** : Indicated by cathode band

**Weight** : 0.007 ounce, 0.226 gram

**Packaging** : 0.5Kpcs per 7" reel  
3Kpcs per 13" reel

#### Package Dimensions in inches(millimeters): DO-214AB/SMC



#### Maximum Ratings And Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Parameter	Symbol	SKS22C	SKS24C	SKS26C	Unit
Marking Code		KS22	KS24	KS26	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	40	60	V
Maximum RMS Voltage	$V_{RMS}$	14	28	42	V
Maximum DC Blocking Voltage	$V_{DC}$	20	40	60	V
Maximum Instantaneous Forward Voltage@2.0A, $T_A=25^\circ\text{C}$	$V_F$	0.35	0.40	0.50	V
Operating Temperature	$T_J$	-50 ~ +125			°C

Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Forward Rectified Current	See Fig.1	$I_O$			2.0	A
Forward Surge Current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	$I_{FSM}$			50	A
Reverse Current	$V_R=V_{RRM}, T_A=25^\circ\text{C}$	$I_R$			0.5	mA
	$V_R=V_{RRM}, T_A=100^\circ\text{C}$				20	
Thermal Resistance	Junction to ambient	$R_{\theta JA}$		50		°C/W
Diode Junction Capacitance	f=1MHz and applied 4V DC reverse voltage	$C_J$		30		pF
Storage Temperature		$T_{STG}$	-50		+150	°C

## Rated and Characteristic Curve

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

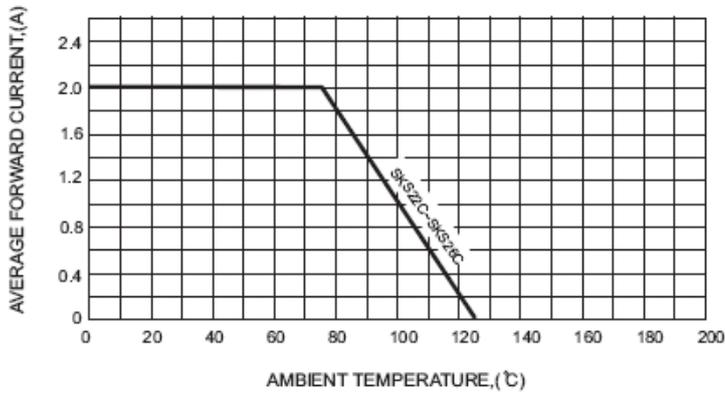


FIG.2-TYPICAL FORWARD CHARACTERISTICS

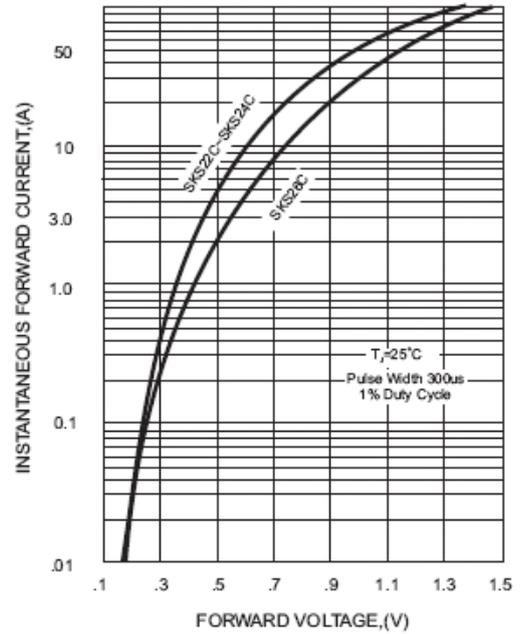


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

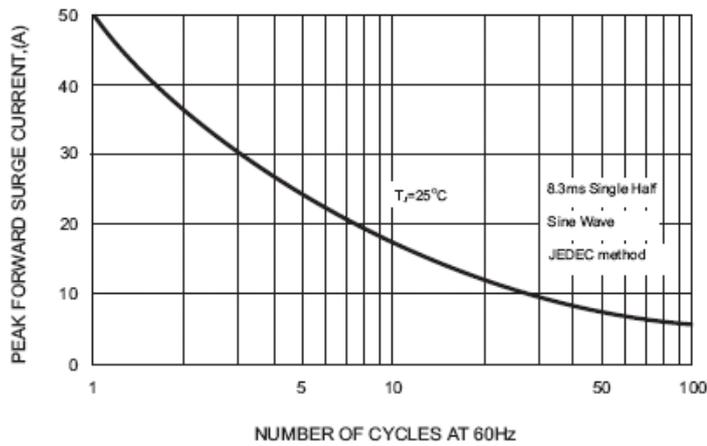


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

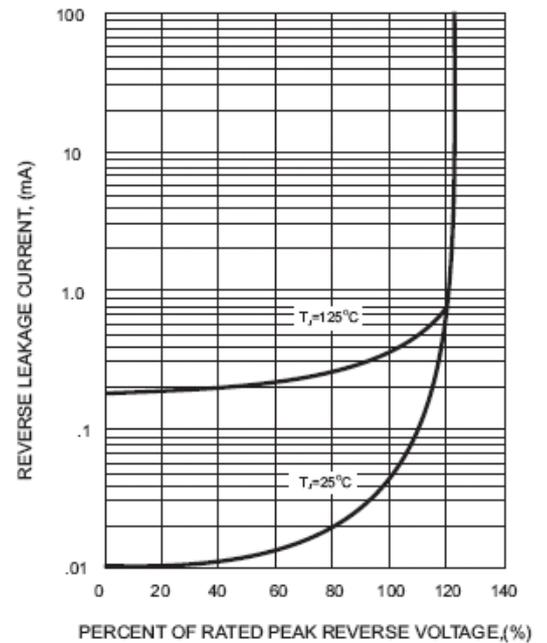


FIG.4-TYPICAL JUNCTION CAPACITANCE

