



自主封測 品質把控 售後保障

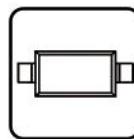
WEB | WWW.TDSEMIC.COM



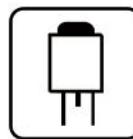
電源管理



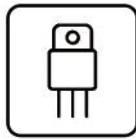
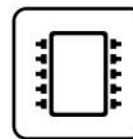
顯示驅動



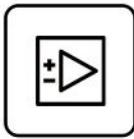
二三極管 LDO穩壓器



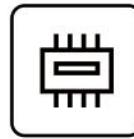
觸摸芯片



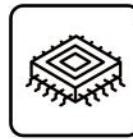
MOS管



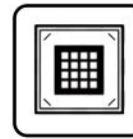
運算放大器



存儲芯片



MCU



串口通信

K220-TD

產品規格說明書

Surface Mount Schottky Barrier Rectifier
 Reverse Voltage - 20 to 200 V
 Forward Current - 2.0A

Features

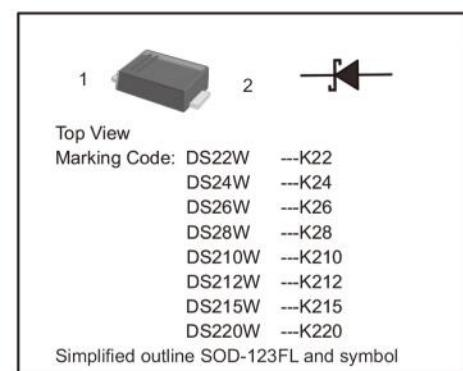
- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- Case: SOD-123FL
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 15mg 0.00048oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute 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, derate by 20 %

Parameter	Symbols	DS22W	DS24W	DS26W	DS28W	DS210W	DS212W	DS215W	DS220W	Units								
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	120	150	200	V								
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	84	105	140	V								
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	120	150	200	V								
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2.0								A								
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	50								A								
Max Instantaneous Forward Voltage at 2 A	V_F	0.55		0.70		0.85		0.95		V								
Maximum DC Reverse Current $T_a = 25^\circ C$ at Rated DC Reverse Voltage $T_a = 100^\circ C$	I_R	0.5 5		0.3 3						mA								
Typical Junction Capacitance ⁽¹⁾	C_j	220		80						pF								
Typical Thermal Resistance ⁽²⁾	$R_{\theta JA}$	85								°C/W								
Operating Junction Temperature Range	T_j	-55 ~ +125								°C								
Storage Temperature Range	T_{stg}	-55 ~ +150								°C								

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C.

(2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Fig.1 Forward Current Derating Curve

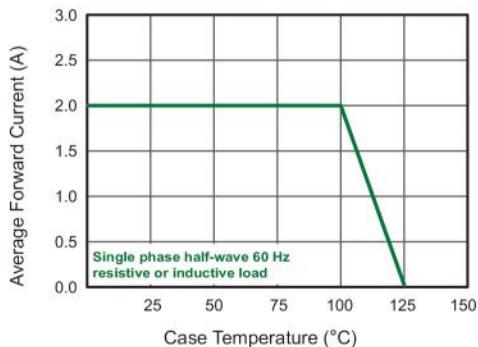


Fig.3 Typical Forward Characteristic

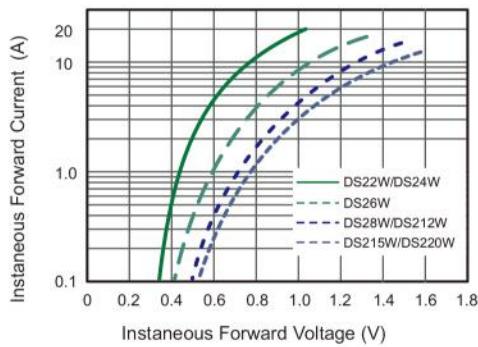


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

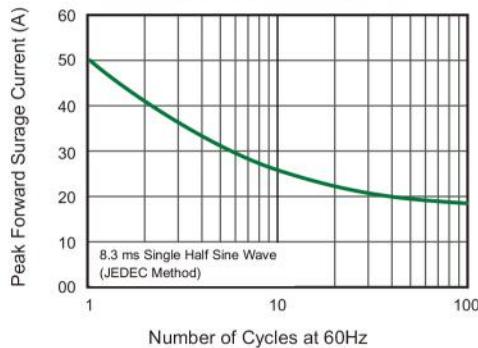


Fig.2 Typical Reverse Characteristics

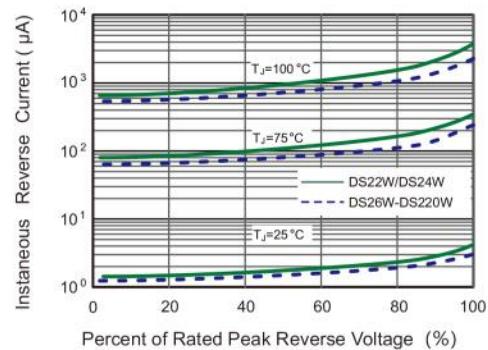


Fig.4 Typical Junction Capacitance

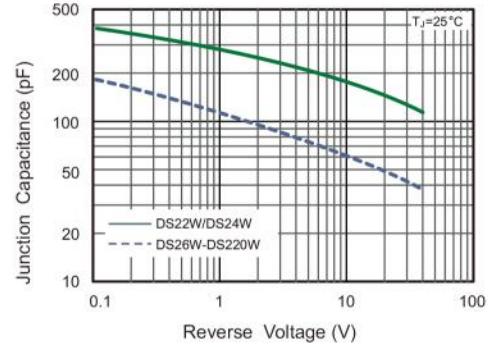
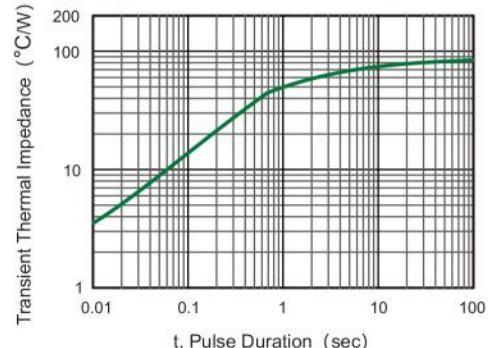


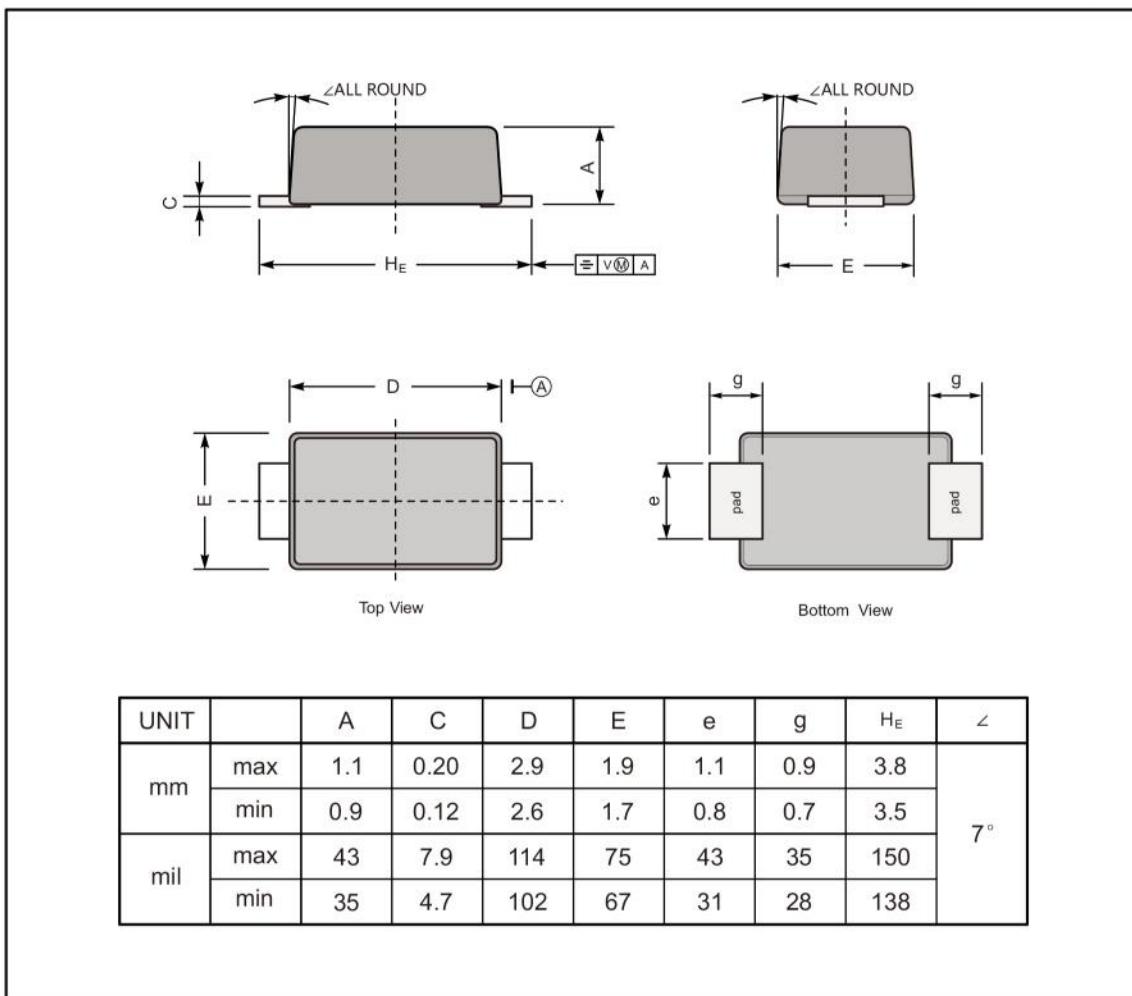
Fig.6- Typical Transient Thermal Impedance



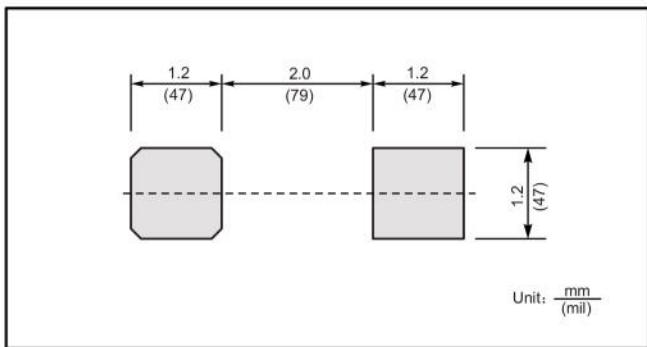
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



The recommended mounting pad size



Marking

Type number	Marking code
DS22W	K22
DS24W	K24
DS26W	K210
DS28W	K28
DS210W	K210
DS212W	K212
DS215W	K215
DS220W	K220