ES2A THRU ES2J

SURFACE MOUNT SUPER FAST RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current - 2.0 Ampere

FEATURES

◆ Plastic package has underwrites laboratory

Flammability Classification 94V-0

- ◆Glass passivated chip junction
- ◆Built in strain relief
- ◆Suoer Fast switching speed for high efficiency
- ◆High temperature soldering guaranteed:

250°C/10 seconds

Mechanical Data

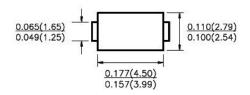
◆Case: JEDED DO-214AC transfer molded plastic

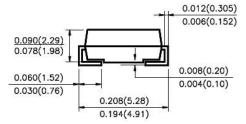
◆Terminals: Solder plated, solderable per MIL-STD-750

Method 2026

◆Polarity: Color band denotes cathode end

DO-214AC (SMA)





Dimensions in inches and (millimeters)

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%

		SYMBOL	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J	UNIT
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	150	200	300	400	600	VOLTS
Maximum RMS Voltage		V _{RMS}	35	70	105	140	210	280	420	VOLTS
Maximum DC Blocking Voltage		V _{DC}	50	100	150	200	300	400	600	VOLTS
Maximum Average Forward Rectified Current at T_L =100°C		I _(AV)	2.0							Amps
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		Ігѕм	50						Amps	
Maximum Instantaneous Forward Voltage @ 2.0A		V _F	0.95 1.25 1.7				1.7	Volts		
Maximum DC Reverse Current at rated DC Blocking voltage per element	T _A = 25°C		5.0							uA
	T _A = 125℃	l _R	200							
Typical Reverse Recovery Time Test conditions $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$		t _{rr}	35						nS	
Typical Junction Capacitance(Measured at 1.0MHz and applied reverse voltage of 4.0V)		CJ		25 208				pF		
Typical Thermal Resistance (Note 1)		$R_{\theta JA}$		75						
		$R_{\theta JL}$	17							°C/W
Operating Junction Temperature Range		T_J	-55 to +150							$^{\circ}$
Storage Temperature Range		Tstg		-55 to +150						

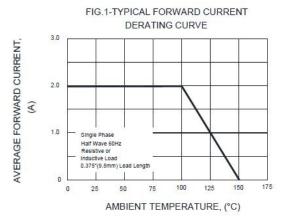
Note: 1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with 0.3×0.3 " (8.0 \times 8.0mm) copper pad areas

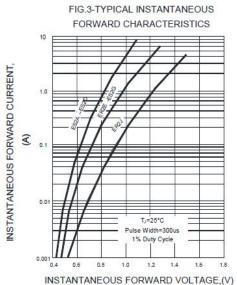
ES2A THRU ES2J

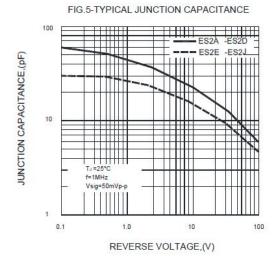
SURFACE MOUNT ULTRA FAST RECTIFIER

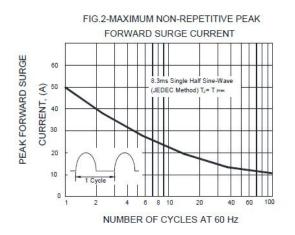
Reverse Voltage - 50 to 600 Volts Forward Current - 2.0 Ampere

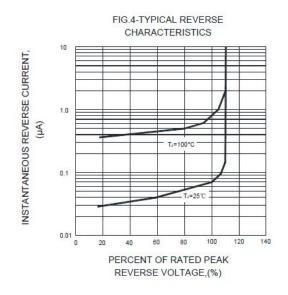
RATING AND CHARACTERISTIC CURVES ES2A THRU ES2J

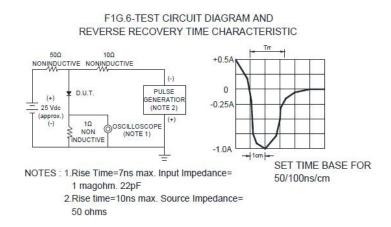












Note: Specifications are subject to change without notice. For more detail and update, please visit our website.