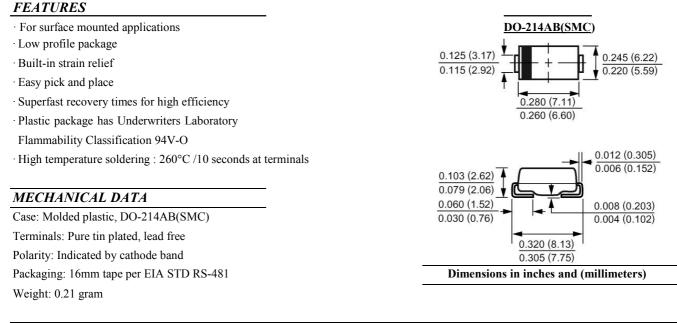


ES8A THRU ES8J SURFACE MOUNT SUPERFAST RECOVERY RECTIFIER



REVERSE VOLTAGE: FORWARD CURRENT:

50 to 600 VOLTS 8.0 AMPERE



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 current by 20%.

	Symbols	ES8A	ES8B	ES8C	ES8D	ES8F	ES8G	ES8H	ES8J	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	500	600	Volts
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	350	420	Volts
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	500	600	Volts
Maximum Average Forward Rectified Current at TL=75 $^{\circ}$ C	I(AV)	8.0								Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	150								Amp
Maximum Forward Voltage at 8.0A	VF	0.95 1.30 1.70						Volts		
Maximum Reverse Current at TA=25°C at Rated DC Blocking Voltage TA=125°C	I _R	10 350								μАтр
Typical Junction Capacitance (Note 1)	CJ	70								pF
Typical Thermal Resistance (Note 2)	Røja	20								°C/W
Maximum Reverse Recovery Time (Note 3)	Trr	35								nS
Operating Junction Temperature Range	TJ	-55 to +150								ç
Storage Temperature Range	Tstg	-55 to +150							ç	

NOTES:

1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

2- Thermal resistance from junction to lead mounted on P.C.B. with 0.6 x 0.6" (16.0 x 16.0mm) copper pad areas

3- Reverse Recovery Test Conditions: IF=.5A, IR=1A, IRR=.25A.

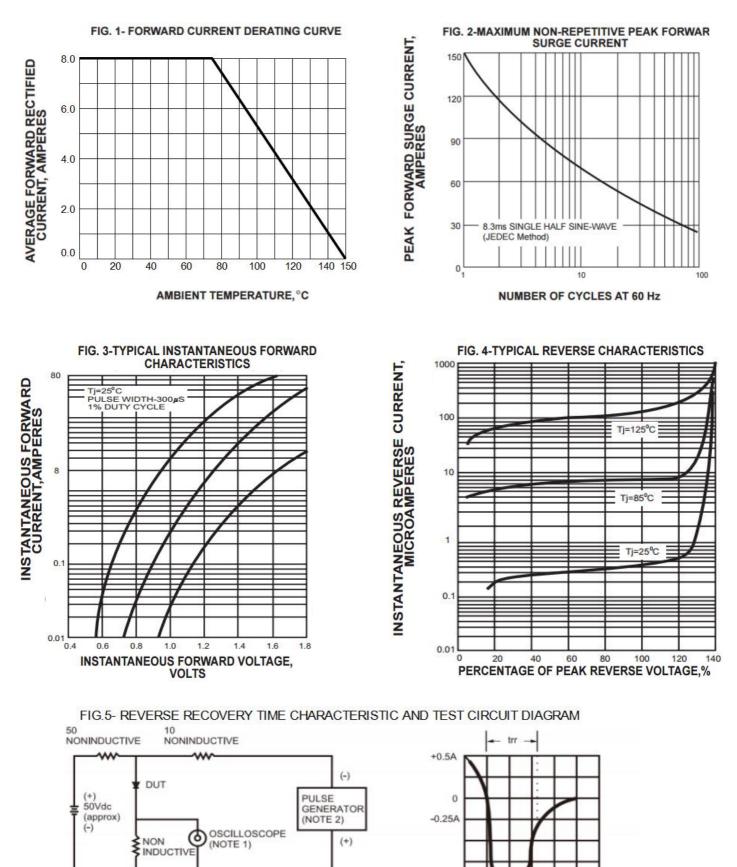


RATINGS AND CHARACTERISTIC CURVES

NOTES: 1. Rise Time=7ns max. Input Impedance= 1 megohm 22pf

50 ohms

2. Rise Time=10ns max. Sourse Impedance=



http://www.cenxelec.com.cn

5/ 10ns/ cm

SET TIME BASE FOR

-- 1cm

-1.0A