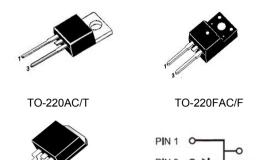
ULTRAFAST RECOVERY RECTIFIERS



TO-263/S

Primary Characteristic			
I _o	8A		
V_{RRM}	400V		
I _{FSM}	120A		
V_{F}	1.1V		
T _J max	150℃		

Lead Free Package and Finish

FEATURES

- · High speed switching capability
- High current capability
- · High forward surge capability
- · Low power losses, High efficiency
- High reliability
- For use in low voltage, high frequency inverters

APPLICATIONS

Fast recovery diode, mainly used for rectification, used in highequipment, The express and ultrafast recovery diodes are suitable high frequency and ultra high frequency circuits, respectively

MECHANICAL DATA

• Case: Molded plastic · Polarity: As marked • Mounting Position: Any

• Molded Plastic: UL Flammability Classification Rating 94V-0 • Lead free in compliance with EU RoHS 2011/65/EU directive

• Solder bath temperature 275 °C maximum,10s per JESD 22-B106

Maximum Ratings at Ta=25°C unless otherwise specified						
Characteristics	Symbol	Value	Unit			
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	400	V			
Working Peak Reverse Voltage	V_{RWM}	400	V			
Maximum DC Blocking Voltage	V_{DC}	400	V			
Maximum Average Forward Rectified Current	Ιο	8	Α			
Peak Forward Surge Current,8.3 ms Single Half Sine-wave	I _{FSM}	120	Α			
Operating Temperature Range	T_J	-40 to +150	°C			
Storage Temperature Range	T_{STG}	-40 to +150	°C			
Typical Thermal Resistance (Note1)						
TO-220AC,TO-263	R _{0 JC}	2	°C/W			
TO-220FAC		4				

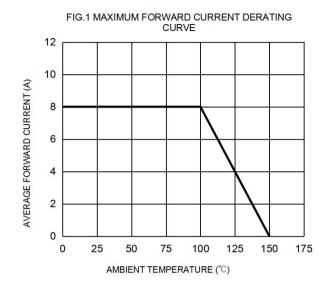
Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

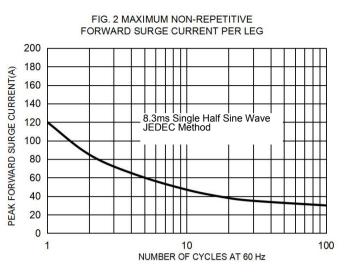
Electrical Characteristics unless otherwise specified							
Characteristics		Symbol	Value		Unit		
Forward Voltage Drop(Note2)			Тур.	Max.			
at I _F =3A	TA=25°C	V _F	1.01	-	V		
	TA=125°C		0.87	-			
at I _F =5A	TA=25°C		1.10	-			
	TA=125°C		0.96	-			
at I _F =8A	TA=25°C		1.20	1.59			
	TA=125°C		1.10	-]		
Maximum Reverse Current at V _R =400V	TA=25°C	I _R	0.1	1	μA		
	TA=125°C		10	-	μA		
Maximum Reverse Recovery Time at I _F =0.5A, I _R =1A, I _{RR} =0.25A		Trr	-	35	ns		

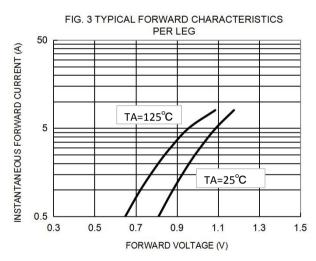
Note2:Pulse test: 300 µs pulse width, 1 % duty cycle

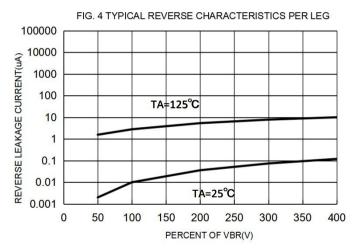
REASUNOS

RATINGS AND CHARACTERISTIC CURVES





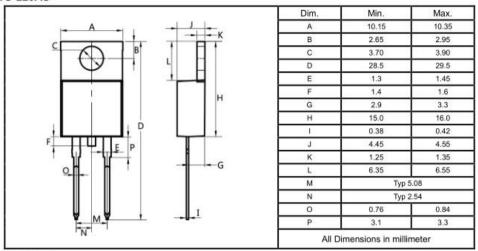




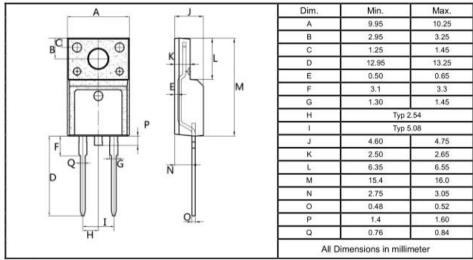
REASUNOS

Package Outline Dimensions millimeters

TO-220AC



TO-220FAC



TO-263

