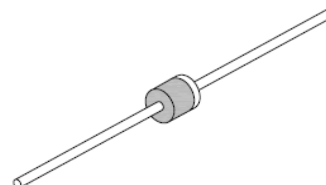


2.5A Fast Recovery Rectifier

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- High temperature soldering guaranteed 250°C/10 seconds
/.0375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS Compliance



R-3



Mechanical Data

Case:	R-3, molded plastic
Epoxy:	UL 94V-0 rate flame retardant
Terminals:	Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
Polarity:	Color band denotes cathode end
Weight:	0.40 gram

Maximum Ratings and Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	TF 251	TF 252	TF 253	TF 254	TF 255	TF 256	TF 257	Unit	Conditions
VRRM	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
VRMS	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
VDC	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
IAV	Maximum Average Forward Rectified Current	2.5							A	Ta=55 °C
IFSM	Peak Forward Surge Current	150							A	8.3ms single half sine-wave superimposed on rated load (JEDEC method)

2.5A Fast Recovery Rectifier

TF251 - TF257

Symbol	Description	TF 251	TF 252	TF 253	TF 254	TF 255	TF 256	TF 257	Unit	Conditions
V _F	Maximum Instantaneous Forward Voltage	1.3							V	I _F =2.5 A
I _R	Maximum DC Reverse Current at Rated DC Blocking Voltage	5.0							μA	T _A =25° C
		100								T _A =100° C
T _{rr}	Typical Reverse Recovery Time	150				250	500		nS	I _F =0.5A, I _R =1A, I _{rr} =0.25A
C _J	Typical Junction Capacitance	60							pf	V _R =4V, f=1MHz
T _J	Operating Temperature range	-55 to +125							° C	
T _{STG}	Storage Temperature Range	-55 to +150								

Typical Characteristics Curves

Fig.1-Max. Forward Current Derating Curve

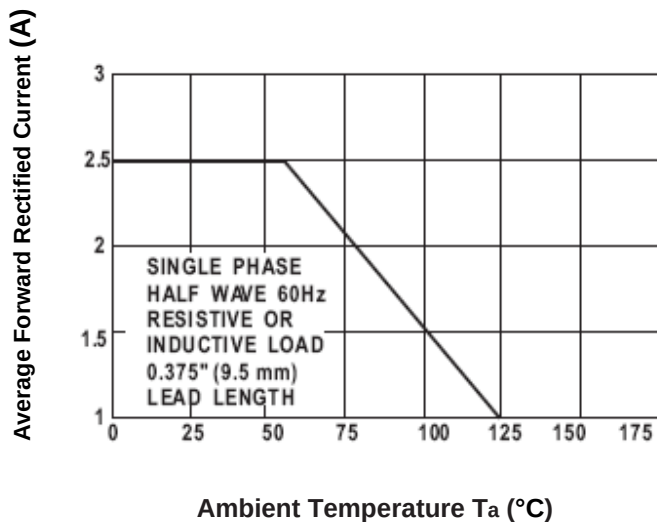
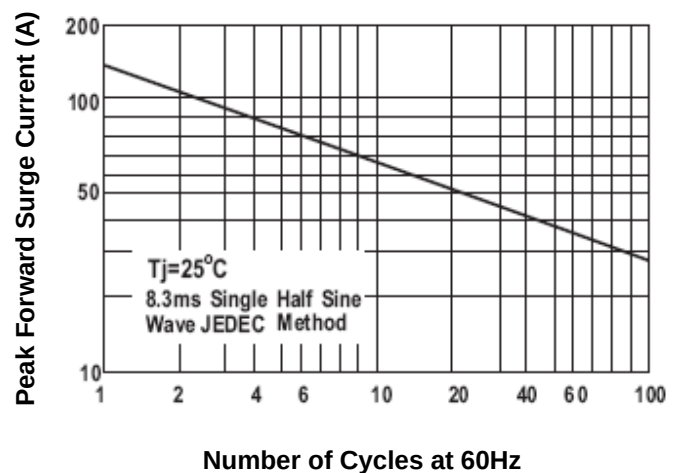


Fig.2-Max. Non-Repetitive Forward Surge Current



2.5A Fast Recovery Rectifier

TF251 - TF257

Fig.3- Typical Forward Characteristics

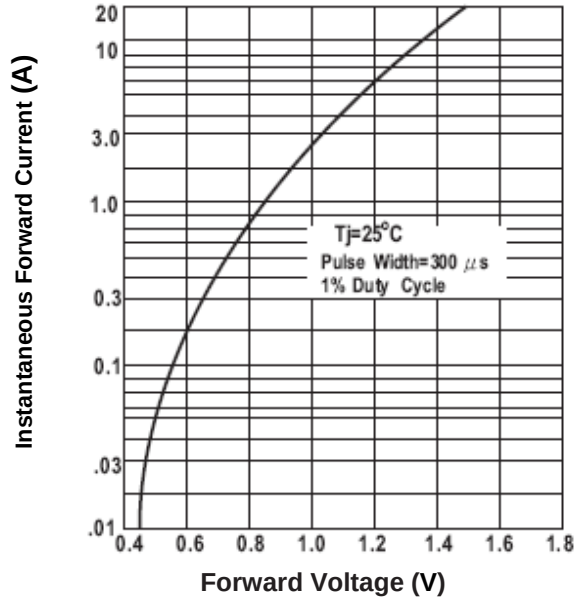
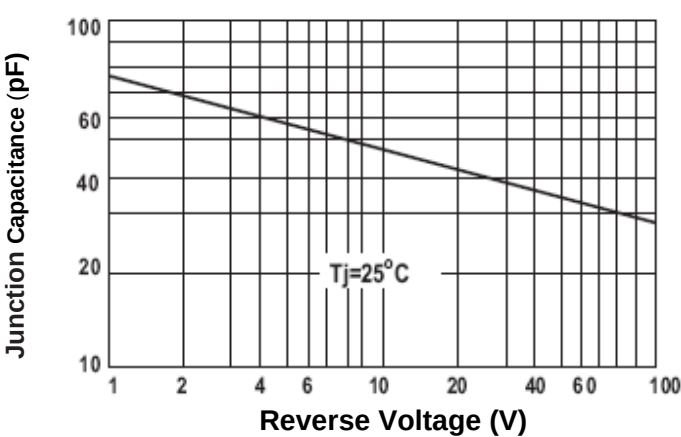
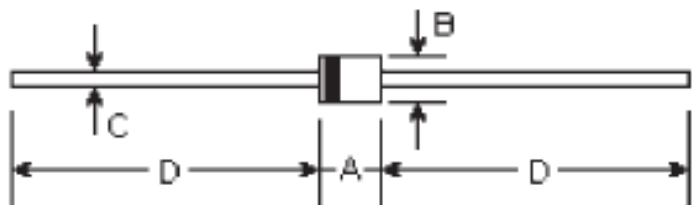


Fig.4- Typical Junction Capacitance



Dimensions in inches (mm)



DIMENSIONS					
DIM	inches		mm		Note
	Min.	Max.	Min.	Max.	
A	0.138	0.161	3.50	4.10	
B	0.138	0.161	3.50	4.10	⌀
C	0.040	0.043	1.00	1.10	⌀
D	1.000	-	25.40	-	

R-3

2.5A Fast Recovery Rectifier

TF251 - TF257

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 824-8766 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.
42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONENTS INCORPORATED E REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONENTS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

CROSS REGION PLAZA, 899 LINGLING ROAD, SUITE 18C, SHANGHAI, 200030, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931