

25Amp 2500V & 3600V DO-5 Rectifier

Features

- V_{RRM} to 3600V
- Low Leakage
- Stud mounted DO- 5 case
- Low thermal impedance
- Low Forward Voltage
- Standard Polarity and Reverse Polarity



Standard	Reverse	V_{RRM} Voltage	V_{RSM} Voltage
25A25	25AR25	2500	2600
25A36	25AR36	3600	3700

Electrical Characteristics		
Average Forward Current 25A/AR25	IF(AV) 25Amps	$T_c = 110^\circ\text{C}$
Average Forward Current 25A/AR36	IF(AV) 25Amps	$T_c = 100^\circ\text{C}$
Maximum Surge Current, Non Repetitive	IFSM 356ps	10ms sine $T_j = T_{jmax}$
Max I^2t for fusing	0.63 KA ² s	
Max peak forward voltage 25A/AR25	V_{FM} 1.40 Volts	$I_{PK}=80A : T_j=25^\circ\text{C}, t_p = 400\mu\text{s}$
Max peak forward voltage 25A/AR36	V_{FM} 1.50 Volts	$I_{PK}=80A : T_j=25^\circ\text{C}, t_p = 400\mu\text{s}$
Max peak reverse current	I_{RM} 10ma	$V_{RRM}, T_j = T_{jmax}$
Max peak reverse current	I_{RM} 1.0mA	$V_{RRM}, T_j = 150^\circ\text{C}$
Reverse recovery time 25A/AR25	3us	$I_{FM}=25$ Amps, $di/dt = 100A/\mu\text{s}$

Thermal and Mechanical characteristics		
Storage temp range	T_{STG}	-55°C to 150°C
Max junction Operating temp range	T_{JM}	150°C 25A/AR25
Max junction Operating temp range	T_{JM}	140°C 25A/AR36
Maximum thermal resistance	$R_{\theta JC}$	0.95 K/W
Mounting torque		2.3 ~ 3.4 Nm
Package		DO-5

Package Outline: DO-5 (DO-203AB)

